



{PERSON_GREETID},

Damen bleiben in JOOLA EM-Qualifikation ungeschlagen. – Linz AG Froschberg sichert sich den achten Titel in der Superliga. – Die ITTF veröffentlicht Testberichte zu neuem Tischtennisball.



JOOLA EM-QUALIFIKATION DER DAMEN

Österreichs Damenteam mit Nicole Galitschitsch, Melanie Luginger, Karoline Mischek und Sofia Polcanova gewann in Schwechat die Rückrunde der JOOLA EM-Qualifikation, Standard Division, souverän.

[lesen Sie mehr](#)



SUPERLIGATITEL AN LINZ AG FROSCHBERG

Die Damen von Linz AG Froschberg haben sich mit zwei Siegen gegen Budaörsi SC zum achten Mal den Titel in der mitteleuropäischen Superliga gesichert. Zum 20-Jahr-Jubiläum der Superliga übernahmen die Linzerinnen damit noch vor Statisztika Budapest die alleinige Führung in der ewigen Bestenliste des Bewerbs.

[lesen Sie mehr](#)



ÖSTERREICHISCHE MEISTERSCHAFTEN U15

Von 10. bis 12. Mai finden in Wr. Neudorf die Österreichischen Meisterschaften der Altersklasse U15 statt. 108 Spieler und Spielerinnen kämpfen in den Bundesländer-, Einzel- und Doppelbewerben um die Titel.

[lesen Sie mehr](#)



ROBERT GARDOS IM CHAMPIONS LEAGUE FINALE

Robert Gardos hat mit seinem französischen Tischtennisclub Chartres zwar das Rückspiel des Champions-League-Finales in Orenburg 3:1 gewonnen, der Titel ging aber nach Auszählung der Punkte wie im Vorjahr an die Russen.

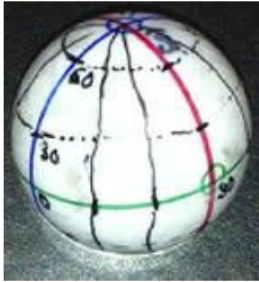
[lesen Sie mehr](#)



WELTRANGLISTE MAI 2013

Nur kleine Änderungen gab es bei den Weltranglistenpositionen unserer Kaderspieler. Liu Jia bei den Damen und Robert Gardos bei den Herren sind die bestplatzierten Aktiven.

[lesen Sie mehr](#)



"PLASTIKBALL" ERSETZT ZELLULOIDBALL

Die ITTF wird den neuen Plastikball im Juli 2014 einführen. Da bei der Produktion des neuen Balles kein Zelluloid mehr verwendet wird, ist mit abweichenden Eigenschaften im Vergleich zum Zelluloidball zu rechnen. Hierzu hat die ITTF neue Studien veröffentlicht.

[lesen Sie mehr](#)



LIEBHERR
Ströck

DONIC

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JOOLA EM-QUALIFIKATION

[zurück](#)

Österreichs Damen kämpften Samstag und Sonntag in der Werner Schlager Academy in der JOOLA EM-Qualifikation.

Gespielt wurde gegen Aserbaidshan, Bosnien und Herzegowina sowie Kosovo.

Österreichs Damen mit Nicole Galitschitsch, Melanie Luginger, Karoline Mischek und Sofia Polcanova geben am ersten Tag keine Satz ab und gewannen sowohl gegen Kosovo als auch Aserbaidshan mit 3:0. Am zweiten Tag gewann man gegen Bosnien und Herzegowina mit 3:1 und sicherte sich somit den 1. Platz in der EM Qualifikation Gruppe A der Standard Division.

- [Ergebnisse](#)



Standard Division - Women

Group A

	A	B	C	D	A	B	C	D	Score	Games	Points	Rank
A Austria	-	3:2	3:1	3:0	-	3:1	3:0	3:0	6:0	18:4	12	1
B Bosnia H.	2:3	-	2:3	3:0	1:3	-	3:0	3:0	3:3	14:9	9	2
C Azerbaijan	1:3	3:2	-	3:0	0:3	0:3	-	3:2	3:3	10:13	9	3
D Kosovo	0:3	0:3	0:3	-	0:3	0:3	2:3	-	0:6	2:18	6	4

R1 - AUSTRIA - KOSOVO **3:0** Apr 27, 2013 14h00 CET *Schwechat (AUT)*

MISCHEK Karoline MALOKU Vlona 3:0 (13:11, 11:8, 11:1, 0:0, 0:0)

POLCANOVA Sofia JANJEVA Nehare 3:0 (11:4, 11:4, 11:4, 0:0, 0:0)

LUGINGER Melanie JANJEVA Amare 3:0 (12:10, 13:11, 11:8, 0:0, 0:0)

R1 - BOSNIA H. - AZERBAIJAN **3:0** Apr 27, 2013 14h00 CET *Schwechat (AUT)*

R2 - BOSNIA H. - KOSOVO **3:0** Apr 27, 2013 19h00 CET *Schwechat (AUT)*

R2 - AUSTRIA - AZERBAIJAN **3:0** Apr 27, 2013 19h00 CET *Schwechat (AUT)*

GALITSCHITSCH Nicole AHMADOVA Sabina 3:0 (11:6, 11:3, 11:6, 0:0, 0:0)

POLCANOVA Sofia GULIYEVA Rufat 3:0 (11:2, 11:5, 11:5, 0:0, 0:0)

LUGINGER Melanie ALIYEVA Zarif 3:0 (11:6, 11:3, 11:7, 0:0, 0:0)

R3 - AZERBAIJAN - KOSOVO **3:2** Apr 28, 2013 10h00 CET *Schwechat (AUT)*

R3 - AUSTRIA - BOSNIA H. **3:1** Apr 28, 2013 10h00 CET *Schwechat (AUT)*

POLCANOVA Sofia KERKEZ Dragana 3:1 (9:11, 11:4, 11:1, 11:7, 0:0)

MISCHEK Karoline HADZIAHMETOVIC Emina 0:3 (6:11, 6:11, 8:11, 0:0, 0:0)

GALITSCHITSCH Nicole KOVAC Ajla 3:1 (11:5, 15:13, 3:11, 12:10, 0:0)

POLCANOVA Sofia HADZIAHMETOVIC Emina 3:0 (11:7, 11:2, 11:7, 0:0, 0:0)

SUPERLIGA FINALE DER DAMEN

[zurück](#)

Linz AG Froschberg gewinnt zum achten Mal in der Vereinsgeschichte den Superliga Titel der Damen.

Bereits das Hinspiel konnte mit 6:2 gewonnen werden. Nun wurde auch das Heimspiel in Linz mit 6:3 gewonnen. Großen Anteil am Sieg hatte Sofia Pocanova mit drei Siegen. Liu Jia, Iveta Vacenovska und Petrissa Solja steuerten je einen Einzelsieg zum 6:3 Erfolg bei. Zum 20 Jahr Jubiläum der Superliga übernahmen die Linzerinnen damit noch vor Statisztika Budapest die alleinige Führung in der ewigen Bestenliste des Bewerbs.

- [Ergebnisse](#)
- [Ergebnisdienst](#)
- [Linz AG Froschberg](#)





Österreichischer
Tischtennis Verband
Bundesliga • Superliga
Dr. Reinhold LUCKENEDER
Tel. 01/5043715, ,
E-Mail:
reinhold.luckeneder@chello.at

Termin: 19. März 2013 + Nachverlegungen
2. FINALE, DAMEN + HERREN, OBERES PLAY-OFF
UNTERES PLAY-OFF: HERREN, Runde 4

Tischtennis SUPERLIGA Resultate

Herren Superliga

Damen Superliga

2. FINALE, Dienstag, 19. 3. 2013

OBERES PLAY-OFF, Rang 1 – 4

Spiel um Rang 1:

SF SKK EI Nino Praha – STK Dr. Casl 6:3
(Gavlas 3, Konecny 2, Tregler 1,
bzw. Zeng Jia 2, Zeng/Japoc)

Spiel um Rang 3:

Penzügyör SE – CVSE Celldömölk 3:6
(Varga 2, Hoffmann 1,
bzw. Fazekas 3, Nagy 2, Nagy/Szita)

Rang 1: SF SKK EI Nino Praha

Rang 2: STK Dr. Casl

Rang 3: CVSE Celldömölk

Rang 4: Penzügyör SE

UNTERES PLAY-OFF, Rang 5 – 7

Runde 4:

MSK Cadca – NTK Kema Puconci 3:6
(Majak 2, Blazek 1, bzw.
Horvat 2, Roposa 2, Skraban 1, Horvat/Skraban)

Rang 5: NTK Kema Puconci 4 3 0 1 20:11 10

Rang 6: UTTC Stockerau 4 3 0 1 19:12 10

Rang 7: MSK Cadca 4 0 0 4 8:24 4

Nachverlegte Finalsplele:

OBERES PLAY-OFF, Rang 1 – 4

1. FINALE Spiel um Rang 1:

Budaörsi 2iSC – Linz AG Froschberg 2:6
(gespielt am 12. 4. 2013:
Madarasz 1, Pergel/Madarasz,
bzw. Solja 3, Polcanova 2, Vacenovska 1)

2. FINALE:

Linz AG Froschberg – Budaörsi 2iSC 6:3
(gespielt am 23. 4. 2013:
Polcanova 3, Vacenovska 1, Solja 1, Liu Jia 1,
bzw. Pergel 2, Pergel/Madarasz)

Rang 1: Linz AG Froschberg

Rang 2: Budaörsi 2iSC

Rang 3: LZ Linz-Froschberg

Rang 4: HASTK Mladost Iskon Zagreb

UNTERES PLAY-OFF, Rang 5 + 6

Rang 5: SKST Topolcany

Rang 6: STMK Stropcov

ÖSTERREICHISCHE MEISTERSCHAFTEN U15

[zurück](#)

Von 10. bis 12. Mai finden in Wr. Neudorf die Österreichischen Meisterschaften 2013 der Altersklasse U15 statt.

108 TeilnehmerInnen werden in Wr. Neudorf an den Start gehen und um die Österreichischen Meistertitel kämpfen. Die Auslosung sowie der Zeitplan wurden nun veröffentlicht.

- [Informationen](#)
- [Auslosung mit Zeitplan \(PDF\)](#)
- [Bundesländerbewerbe](#)





**ÖSTERREICHISCHE
TISCHTENNISMEISTERSCHAFTEN**

U15

10. bis 12. Mai 2013

**Freizeitzentrum Wr. Neudorf
Eumigweg 3
2351 Wr. Neudorf**

AUSLOSUNG

Zeitplan & Informationen

Freitag, 10. Mai 2013

Nr	Bewerb	Anmerkung	Beginn
	Hallenöffnung		15:00
1	Bundesländerbewerb männlich	Vorrunden	16:00
2	Bundesländerbewerb weiblich	Vorrunden	16:00

Samstag, 11. Mai 2013

Nr	Bewerb	Anmerkung	Beginn
	Hallenöffnung		08:00
1	Bundesländerbewerb männlich	Hauptrunde	09:00
2	Bundesländerbewerb weiblich	Finale und Spiele um Platz 3, 5	09:00
4	Einzel weiblich	Vorrunden	ca. 11:30
3	Einzel männlich	Vorrunden	ca. 13:35
6	Doppel weiblich	bis einschließlich Viertelfinale	ca. 17:00
5	Doppel männlich	bis einschließlich Viertelfinale	ca. 18:00
7	Mixed-Doppel	bis einschließlich Viertelfinale	ca. 18:15
4	Einzel weiblich	1. Hauptrunde (4 Spiele)	ca. 19:45
3	Einzel männlich	1. Hauptrunde (8 Spiele)	ca. 19:45

Vorrunden im Einzel können erst begonnen werden, wenn keine Spieler/innen der Vorrundengruppe im Bundesländerbewerb im Einsatz sind.

Sonntag, 12. Mai 2013

Nr	Bewerb	Anmerkung	Beginn
	Hallenöffnung		08:00
	Siegerehrung Mannschaftsbewerbe		08:45
3	Einzel männlich		09:00
4	Einzel weiblich		ca. 09:45
7	Mixed-Doppel		ca. 12:00
5	Doppel männlich		ca. 12:45
6	Doppel weiblich		ca. 12:45

Alle Spieler müssen eine Stunde vor dem Beginn ihres Bewerbs in der Halle **spielbereit sein!**

Spielreihenfolge in Vorrundengruppen

Für 3 oder 4 Starter in der Gruppe:

1. Runde: 1-2, 3-4
2. Runde: 3-1, 2-4
3. Runde: 4-1, 2-3

Für 5 oder 6 Starter in der Gruppe:

1. Runde: 1-6, 2-5, 3-4
2. Runde: 6-4, 5-3, 1-2
3. Runde: 2-6, 3-1, 4-5
4. Runde: 6-5, 1-4, 2-3
5. Runde: 3-6, 4-2, 5-1

Aus den Vorrundengruppen im Einzel männlich und weiblich steigen je zwei Spieler/innen in die Finalrunde auf.

Die Ergebnisse der Bundesländerbewerbe werden laufend unter

<http://xttv.oettv.info/ed/index.php?oid=133> aktualisiert.

Die Finalrunden im Einzel männlich sowie im Einzel weiblich werden auf 4 Gewinnsätze gespielt.

ÖSTERREICHISCHE MEISTERSCHAFTEN U15 2013

10.-12. Mai 2013

Wr. Neudorf

Startnr.	Nachname	Vorname	LTTV
1	Enz	Phillip	BTTV
2	König	Ella	BTTV
3	Palatin	Lena	BTTV
4	Seper	Michael	BTTV
5	Weis	Michael	BTTV
6	Gütl	Alexandra	KTTV
7	Gutschi	Martin	KTTV
8	Kaufmann	Matthias	KTTV
9	Putz	Miriam	KTTV
10	Siwetz	Tobias	KTTV
11	Strauss	Michael	KTTV
12	Vouk	Anna Maria	KTTV
13	Bäuerle	Martin	NÖTTV
14	Bulant	Lukas	NÖTTV
15	Chen	Claudia Ming	NÖTTV
16	Chen	Sofia Lu	NÖTTV
17	Hammerschmid	Andreas	NÖTTV
18	Hartl	Lena	NÖTTV
19	Hoffmann	Daniel	NÖTTV
20	Murhammer	Jakob	NÖTTV
21	Pirgmayr	Stefan	NÖTTV
22	Radel	Martin	NÖTTV
23	Rauscher	Alexander	NÖTTV
24	Rosner	Sebastian	NÖTTV
25	Schagl	Lukas	NÖTTV
26	Schöpfberger	Christoph	NÖTTV
27	Schöppl	Markus	NÖTTV
28	Stürmer	Bianca	NÖTTV
29	Zlatilova	Dzhesika	NÖTTV
30	Bunzenberger	Sophie	OÖTTV
31	Friedrich	Christian	OÖTTV
32	Grininger	Thomas	OÖTTV
33	Oberfichtner	Christine	OÖTTV
34	Promberger	Jonas	OÖTTV
35	Promberger	Lena	OÖTTV
36	Schneeweiß	Lukas	OÖTTV
37	Trink	Michael	OÖTTV
38	Waibel	Felix	OÖTTV
39	Waibel	Valentin	OÖTTV
40	Allwinger	Samira	STTTV
41	Auer	Katharina	STTTV
42	Basta	Magdalena	STTTV
43	Ederegger	Maximilian	STTTV
44	Jakic	Ivana	STTTV
45	Kellermann	Jacob	STTTV
46	Leichtfried	Eva	STTTV
47	Sauer	Rosa	STTTV
48	Strohhofer	Christoph	STTTV
49	Unterweger	Andreas	STTTV
50	Urcan	Christian	STTTV
51	Walter	Philipp	STTTV
52	Weichbold	Simona	STTTV
53	Weichbold	Viola	STTTV
54	Zeya	Cynthia	STTTV

Startnr.	Nachname	Vorname	LTTV
55	Eßl	Marko	STTV
56	Kowatz	Sebastian	STTV
57	Leitner	Selina	STTV
58	Levenko	Andreas	STTV
59	Lindner	Jonathan	STTV
60	Martin	Johann	STTV
61	Ziller	Thomas	STTV
62	Gasser	Julia	TTTV
63	Göller	Mathias	TTTV
64	Göller	Philipp	TTTV
65	Gruber	Patrick	TTTV
66	Hartl	Daniela	TTTV
67	Linder	Clemens	TTTV
68	Margreiter	Lara	TTTV
69	Mayrhofer	Alexander	TTTV
70	Oppelz	Teresa	TTTV
71	Schwarzenbacher	Chiara	TTTV
72	Siller	Patricia	TTTV
73	Unterrainer	Stephan	TTTV
74	Roth	Martin	VTTV
75	Sutterlüti	Matthias	VTTV
76	Thurnher	Ricardo	VTTV
77	Annerl	Samuel	WTTV
78	Baumgartner	Markus	WTTV
79	Brandstätter	Andreas	WTTV
80	Chen	Rui	WTTV
81	Erak	Jelena	WTTV
82	Erak	Milena	WTTV
83	Fuchs	Sandra	WTTV
84	Garmroudi	Bastian	WTTV
85	Germ	Maxwell	WTTV
86	Grabljic	Aleksandra	WTTV
87	Gstaltner	Tobias	WTTV
88	Hrastnig	Ivan	WTTV
89	Humer	Akira	WTTV
90	Kellermann	Sophia	WTTV
91	Kikic	Niklas	WTTV
92	Kolbert	Julian	WTTV
93	Kolbert	Oliver	WTTV
94	Königstedt	Oliver	WTTV
95	Korkisch	Rüdiger	WTTV
96	Kozsik	Lukas	WTTV
97	Leitinger	Valerie	WTTV
98	Liebert	Martin	WTTV
99	Liu	Manfred	WTTV
100	Matejik	Robert	WTTV
101	Mischek	Karoline	WTTV
102	Müller	Fabian	WTTV
103	Ottomaier	Mario	WTTV
104	Riedler	Matthias	WTTV
105	Schuster	Sophie	WTTV
106	Weber	Sebastian	WTTV
107	Welles	Benedikt	WTTV
108	Welsch	Moritz	WTTV

Falsch geschriebene Namen bitte an den ÖTTV melden!

Bundesländerbewerb männlich

Vorrunde A	Vorarlberg	Oberösterreich	Kärnten	Rang
Vorarlberg		:: 1	:: 2	
Oberösterreich	:: 1		:: 3	
Kärnten	:: 2	:: 3		

Vorrunde B	Tirol	Salzburg	Niederösterreich	Rang
Tirol		:: 1	:: 2	
Salzburg	:: 1		:: 3	
Niederösterreich	:: 2	:: 3		

Vorrunde C	Burgenland	Steiermark	Wien	Rang
Burgenland		:: 1	:: 2	
Steiermark	:: 1		:: 3	
Wien	:: 2	:: 3		

Bundesländerbewerb männlich

Platz 1-3	1. Vorrunde	1. Vorrunde	1. Vorrunde	Rang
1. Vorrunde		:: 1	:: 2	
1. Vorrunde	:: 1		:: 3	
1. Vorrunde	:: 2	:: 3		

Platz 4-6	2. Vorrunde	2. Vorrunde	2. Vorrunde	Rang
2. Vorrunde		:: 1	:: 2	
2. Vorrunde	:: 1		:: 3	
2. Vorrunde	:: 2	:: 3		

Platz 7-9	3. Vorrunde	3. Vorrunde	3. Vorrunde	Rang
3. Vorrunde		:: 1	:: 2	
3. Vorrunde	:: 1		:: 3	
3. Vorrunde	:: 2	:: 3		

Bundesländerbewerb weiblich

Vorrunde A	Kärnten	Wien	Oberösterreich		Siege	Niederlagen	Satzverhältnis Punkteverhältnis	Rang
Kärnten		:: 1	:: 2				:: :	
Wien	: 1		: 3				: :	
Oberösterreich	: 2	: 3					: :	

Vorrunde B	Steiermark	Burgenland	Tirol	Niederösterreich	Siege	Niederlagen	Satzverhältnis Punkteverhältnis	Rang
Steiermark		: 1	: 3	: 5			: :	
Burgenland	: 1		: 6	: 4			: :	
Tirol	: 3	: 6		: 2			: :	
Niederösterreich	: 5	: 4	: 2				: :	

Spiel um Platz 1

1. Vorrunde A

Spiel um Platz 3

2. Vorrunde A

Spiel um Platz 5

3. Vorrunde A

Einzel männlich

2 Aufsteiger je Vorrundengruppe in die Finalrunde

Einzel männlich Vorrunde Gruppe A		Hrastnig	Müller	Lindner	Linder	Siege	Niederlagen	Punkte	Rang
Hrastnig Ivan	WTTV					0	0	0	1
Müller Fabian	WTTV					0	0	0	1
Lindner Jonathan	STTV					0	0	0	1
Linder Clemens	TTTV					0	0	0	1

Einzel männlich Vorrunde Gruppe B		Rauscher	Sutterlüti	Strohhofer	Annerl	Siege	Niederlagen	Punkte	Rang
Rauscher Alexander	NÖTTV					0	0	0	1
Sutterlüti Matthias	VTTV					0	0	0	1
Strohhofer Christoph	STTTV					0	0	0	1
Annerl Samuel	WTTV					0	0	0	1

Einzel männlich Vorrunde Gruppe C		Göller	Schöfberger	Kikic	Strauss	Siege	Niederlagen	Punkte	Rang
Göller Philipp	TTTV					0	0	0	1
Schöfberger Christoph	NÖTTV					0	0	0	1
Kikic Niklas	WTTV					0	0	0	1
Strauss Michael	KTTV					0	0	0	1

Einzel männlich Vorrunde Gruppe D		Riedler	Matejik	Gruber	Hammerschmid	Siege	Niederlagen	Punkte	Rang
Riedler Matthias	WTTV					0	0	0	1
Matejik Robert	WTTV					0	0	0	1
Gruber Patrick	TTTV					0	0	0	1
Hammerschmid Andreas	NÖTTV					0	0	0	1

Einzel männlich Vorrunde Gruppe E		Promberger	Bäuerle	Humer	Welsch	Siege	Niederlagen	Punkte	Rang
Promberger Jonas	OÖTTV					0	0	0	1
Bäuerle Martin	NÖTTV					0	0	0	1
Humer Akira	WTTV					0	0	0	1
Welsch Moritz	WTTV					0	0	0	1

Einzel männlich Vorrunde Gruppe F		Weis	Weber	Kowatz	Ederegger	Siege	Niederlagen	Punkte	Rang
Weis Michael	BTTV					0	0	0	1
Weber Sebastian	WTTV					0	0	0	1
Kowatz Sebastian	STTV					0	0	0	1
Ederegger Maximilian	STTTV					0	0	0	1

Einzel männlich Vorrunde Gruppe G		Brandstätter	Enz	Schöppl	- spielfrei	Unterrainer	Kozsik	Siege	Niederlagen	Punkte	Rang
Brandstätter Andreas	WTTV							0	0	0	1
Enz Phillip	BTTV							0	0	0	1
Schöppl Markus	NÖTTV							0	0	0	1
- spielfrei											
Unterrainer Stephan	TTTV							0	0	0	1
Kozsik Lukas	WTTV							0	0	0	1

Einzel männlich Vorrunde Gruppe H		Roth	Gstaltner	Göller	Murhammer	Garmroudi	- spielfrei	Siege	Niederlagen	Punkte	Rang
Roth Martin	VTTV							0	0	0	1
Gstaltner Tobias	WTTV							0	0	0	1
Göller Mathias	TTTV							0	0	0	1
Murhammer Jakob	NÖTTV							0	0	0	1
Garmroudi Bastian	WTTV							0	0	0	1
- spielfrei											

Einzel männlich Vorrunde Gruppe I		Germ	Schagl	Mayrhofer	- spielfrei	Kaufmann	Ottomaier	Siege	Niederlagen	Punkte	Rang
Germ Maxwell	WTTV							0	0	0	1
Schagl Lukas	NÖTTV							0	0	0	1
Mayrhofer Alexander	TTTV							0	0	0	1
- spielfrei											
Kaufmann Matthias	KTTV							0	0	0	1
Ottomaier Mario	WTTV							0	0	0	1

Finalrunde

- Gesetzte:**
1. Levenko Andreas
 2. Grininger Thomas
 3. Unterweger Andreas
 4. Friedrich Christian
 5. Chen Rui
 6. Rosner Sebastian
 7. Trink Michael
 8. Waibel Felix
 9. Thurnher Ricardo
 10. Gutschi Martin
 11. Baumgartner Markus
 12. Waibel Valentin
 13. Kellermann Jacob
 14. Kolbert Oliver
 15. Eißl Marko
 16. Walter Philipp



1 Levenko Andreas
STTV

9-16 Waibel Valentin
OÖTTV

9-16 Walter Philipp
STTV

5-8 Chen Rui
WTTV

5-8 Rosner Sebastian
NÖTTV

9-16 Baumgartner Markus
WTTV

9-16 Thurnher Ricardo
VTTV

3-4 Friedrich Christian
OÖTTV

3-4 Unterweger Andreas
STTV

9-16 Eißl Marko
STTV

9-16 Kolbert Oliver
WTTV

5-8 Waibel Felix
OÖTTV

5-8 Trink Michael
OÖTTV

9-16 Gutschi Martin
KTUV

9-16 Kellermann Jacob
STTV

2 Grininger Thomas
OÖTTV

Einzel weiblich

2 Aufsteiger je Vorrundengruppe in die Finalrunde

Einzel weiblich Vorrunde Gruppe A		Bunzenberger	Erak	Weichbold	Margreiter	Siege	Niederlagen	Punkte	Rang
Bunzenberger Sophie	OÖTTV					0	0	0	1
Erak Jelena	WTTV					0	0	0	1
Weichbold Simona	STTTV					0	0	0	1
Margreiter Lara	TTTV					0	0	0	1

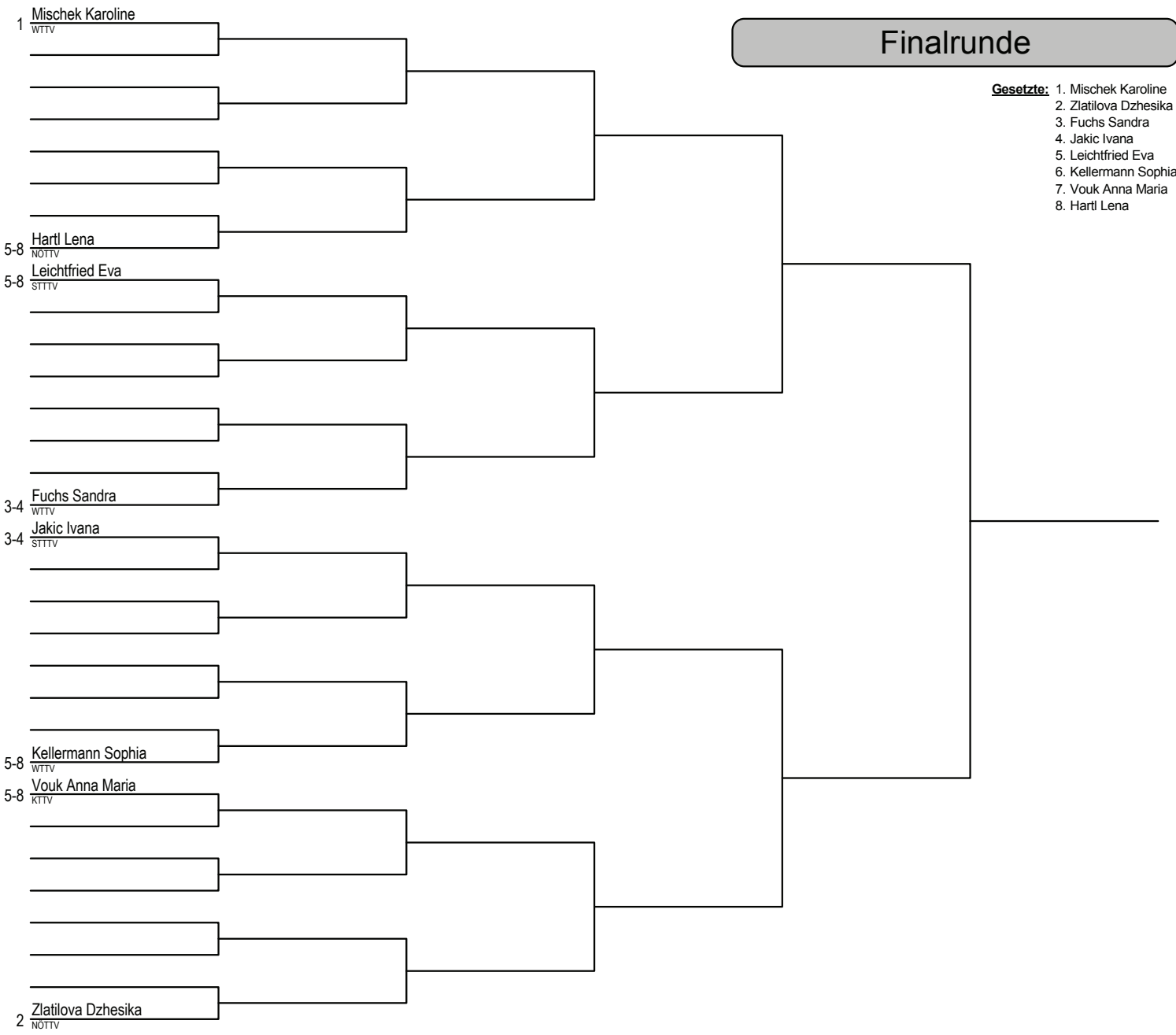
Einzel weiblich Vorrunde Gruppe B		Leitinger	Hartl	Gütl	Chen	Weichbold	- spielfrei	Siege	Niederlagen	Punkte	Rang
Leitinger Valerie	WTTV							0	0	0	1
Hartl Daniela	TTTV							0	0	0	1
Gütl Alexandra	KTTV							0	0	0	1
Chen Sofia Lu	NÖTTV							0	0	0	1
Weichbold Viola	STTTV							0	0	0	1
- spielfrei											

Einzel weiblich Vorrunde Gruppe C		Promberger	Chen	Siller	Sauer	Leitner	- spielfrei	Siege	Niederlagen	Punkte	Rang
Promberger Lena	OÖTTV							0	0	0	1
Chen Claudia Ming	NÖTTV							0	0	0	1
Siller Patricia	TTTV							0	0	0	1
Sauer Rosa	STTTV							0	0	0	1
Leitner Selina	STTV							0	0	0	1
- spielfrei											

Einzel weiblich Vorrunde Gruppe D		Allwinger	Oberfichtner	Erak	- spielfrei	Schwarzenbach	Basta	Siege	Niederlagen	Punkte	Rang
Allwinger Samira	STTTV							0	0	0	1
Oberfichtner Christine	OÖTTV							0	0	0	1
Erak Milena	WTTV							0	0	0	1
- spielfrei											
Schwarzenbacher Chiara	TTTV							0	0	0	1
Basta Magdalena	STTTV							0	0	0	1

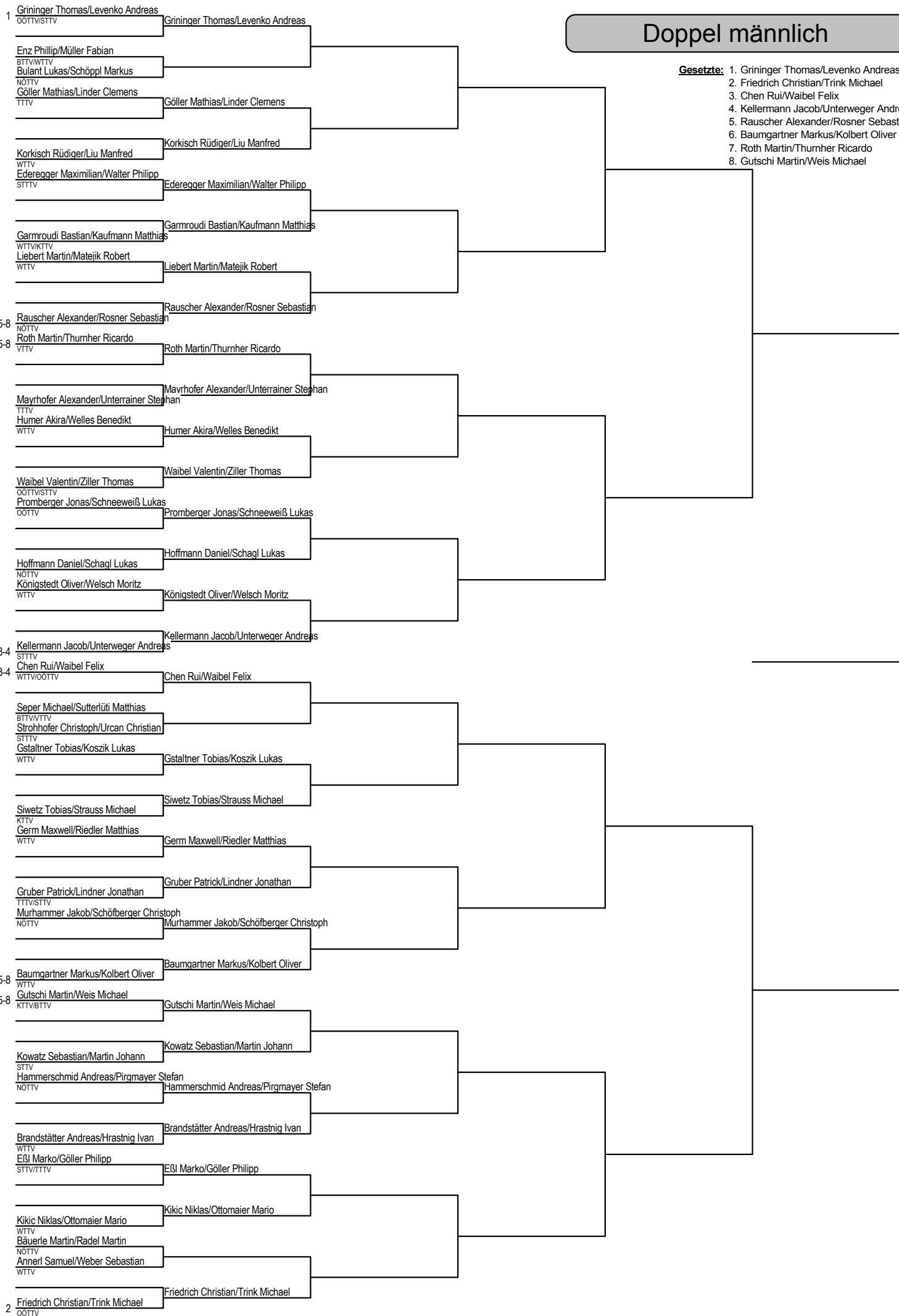
Einzel weiblich Vorrunde Gruppe E		Schuster	Palatin	Stürmer	Auer	Gasser	- spielfrei	Siege	Niederlagen	Punkte	Rang
Schuster Sophie	WTTV							0	0	0	1
Palatin Lena	BTTV							0	0	0	1
Stürmer Bianca	NÖTTV							0	0	0	1
Auer Katharina	STTTV							0	0	0	1
Gasser Julia	TTTV							0	0	0	1
- spielfrei											

Einzel weiblich Vorrunde Gruppe F		König	Oppelz	Putz	Grabljic	Zeya	- spielfrei	Siege	Niederlagen	Punkte	Rang
König Ella	BTTV							0	0	0	1
Oppelz Teresa	TTTV							0	0	0	1
Putz Miriam	KTTV							0	0	0	1
Grabljic Aleksandra	WTTV							0	0	0	1
Zeya Cynthia	STTTV							0	0	0	1
- spielfrei											



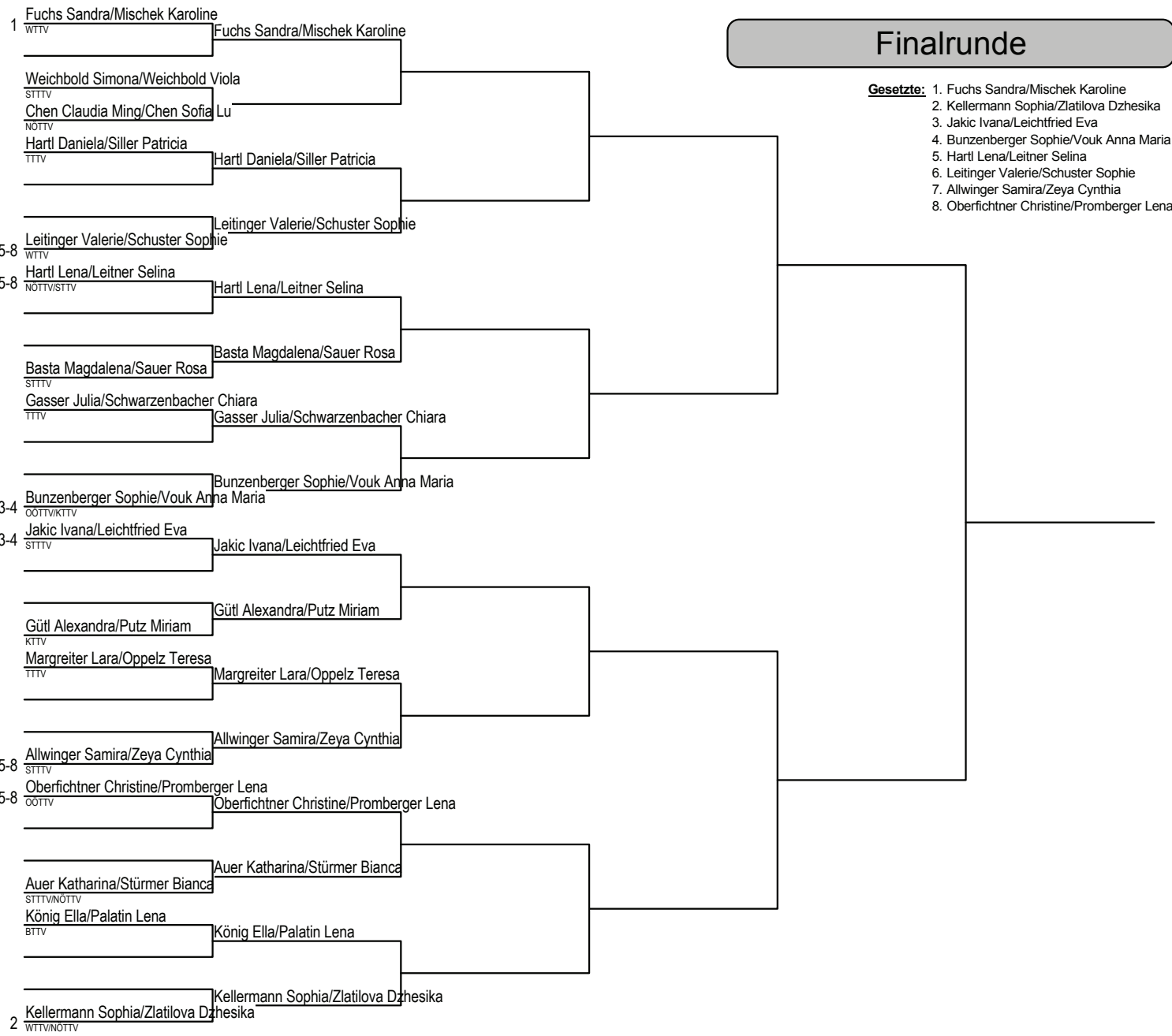
Doppel männlich

- Gesetzte:**
1. Grininger Thomas/Levenko Andreas
 2. Friedrich Christian/Trink Michael
 3. Chen Rui/Waibel Felix
 4. Kellermann Jacob/Unterweger Andreas
 5. Rauscher Alexander/Rosner Sebastian
 6. Baumgartner Markus/Kolbert Oliver
 7. Roth Martin/Thurnher Ricardo
 8. Gutschi Martin/Weis Michael



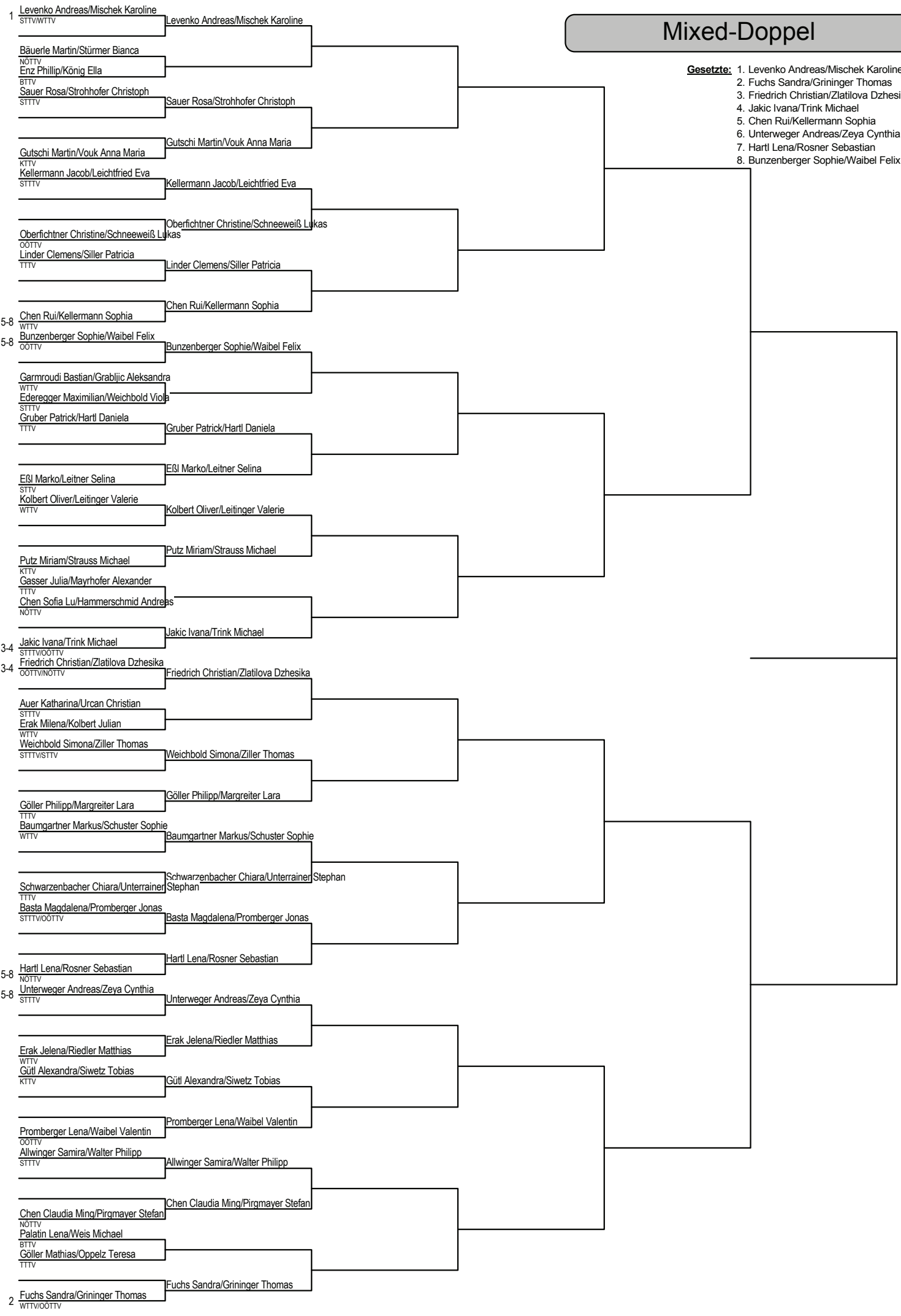
Doppel weiblich

Finalrunde



Mixed-Doppel

- Gesetzte:**
1. Levenko Andreas/Mischek Karoline
 2. Fuchs Sandra/Grininger Thomas
 3. Friedrich Christian/Zlatilova Dzhesika
 4. Jakic Ivana/Trink Michael
 5. Chen Rui/Kellermann Sophia
 6. Unterweger Andreas/Zeya Cynthia
 7. Hartl Lena/Rosner Sebastian
 8. Bunzenberger Sophie/Waibel Felix



GARDOS VERPASST MIT CHARTRES CHAMPIONS-LEAGUE-TITEL

[zurück](#)

Robert Gardos hat mit seinem französischen Tischtennisclub Chartres zwar das Rückspiel des Champions-League-Finales in Orenburg 3:1 gewonnen, der Titel ging aber wie im Vorjahr an die Russen.

Nach dem 3:1-Erfolg Orenburgs im Hinspiel kam wegen des Gleichstands in Spielen (4:4) und Sätzen (16:16) die Gesamtpunktezahl zur Anwendung. Hier hatte Orenburg mit 316:312 Punkten die Nase um 2 Punkte knapp vorne.

Gardos konnte gleich zu Beginn den deutschen Olympiadritten Dimitri Ovtcharov im Auftaktspiel 3:1 bezwingen. Für den entscheidenden Sieg der Gastgeber sorgte nach 0:2-Rückstand Alexej Smirnow mit einem 3:0 gegen den Schweden Pär Gerell.

- [ETTU](#)
- [TTC Fakel of Gazprom](#)
- [Chartres ASTT](#)



Men's European Champions League

Finals

CHARTRES ASTT - GAZPROMA				<i>Chartres</i>
F 1 - ORENBURG	1:3	Apr 12, 2013	19h00 CET	
GAO Ning	SAMSONOV Vladimir	3:1 (3:11, 11:8, 11:5, 11:4, 0:0)		
GERELL Par	OVTCHAROV Dimitrij	1:3 (11:7; 5:11; 7:11; 12:14; 0:0)		
GARDOS Robert	SMIRNOV Alexey	1:3 (11:8, 12:14, 11:13, 7:11, 0:0)		
GAO Ning	OVTCHAROV Dimitrij	2:3 (13:11, 9:11, 9:11, 11:8, 8:11)		

GAZPROMA ORENBURG -				<i>Orenburg</i>
F 2 - CHARTRES ASTT	1:3	Apr 26, 2013	12h20 CET	
OVTCHAROV Dimitrij	GARDOS Robert	1:3 (10:12, 11:5, 14:16, 10:12, 0:0)		
SAMSONOV Vladimir	GAO Ning	2:3 (9:11, 11:9, 11:6, 10:12, 7:11)		
SMIRNOV Alexey	GERELL Par	3:0 (11:8, 11:7, 11:7, 0:0, 0:0)		
OVTCHAROV Dimitrij	GAO Ning	0:3 (7:11, 7:11, 6:11, 0:0, 0:0)		
SAMSONOV Vladimir	GARDOS Robert	0:0 (0:0, 0:0, 0:0, 0:0, 0:0)		

WELTRANGLISTE (MAI 2013)

[zurück](#)

Die aktuelle Weltranglistenplatzierung unserer Nationalkaderspieler.

Die aktuellen [Weltranglisten](#) (Stand Mai 2013) wurden veröffentlicht. (In Klammer die Platzierung des Vormonats).

Übersicht der österreichischen Kader:

Herren:

- GARDOS Robert: 34 (32)
- CHEN Weixing: 35 (33)
- SCHLAGER Werner: 49 (51)
- HABESOHN Daniel: 82 (84)
- FEGERL Stefan: 85 (85)
- FENG Xiaoquan: 225 (222)
- HABESOHN Dominik: 293 (293)
- STORF Martin: 333 (336)
- HEIMBERGER Martin: 407 (412)
- PLATTNER Dominique: 446 (454)

Damen:

- LIU Jia: 27 (26)
- SOLJA Amelie: 57 (58)
- POLCANOVA Sofia: 141 (125)
- GALITSCHITSCH Nicole: 407 (406)
- MISCHEK Karoline: 576 (579)

Zusätzliche Informationen zu den diversen Ranglisten auf nationaler und internationaler Ebene finden Sie unter [Ranglisten](#).



World Rankings 2013

No. 05

01 May 2013

- Bonus Points are awarded to the final positions in Singles events of Olympic Games, World and Continental Championships, ITTF Pro-Tour and some other individual events. These Bonus Points remain valid for a period of 12 months.
- Players' positions on the previous ranking list are shown in () in column 2. (<<) = no change in position from the previous ranking list. (unr) = did not appear on the previous ranking list.
- Players become part of the Initial Rating process if they do not already have their "f" final Starting Points AND they have a change to their results. This change can be due to new results being added, dropped (no longer part of the current 4-year cycle), or modified to correct any error discovered. Players are marked as follows: "n" newly ranked; "i" Starting Points are the calculated Initial Points; "c" Starting Points are capped to the player's 2BW (2nd Best Win); "f" in the first list where their Starting Points have become final, having attained 5 Significant Wins and 5 Significant Losses.
- Only players who have had results in the past **12 months** are ranked. Players marked * have had no results entered for 6 months. These players may re-enter the lists if a result is entered for them in the future. Players who have no results entered for more than **4 years** are treated as new players.
- In the events lists: **Type:** Shows if an individual competition was played in Groups (GR), a K-O system (KO), or if it was a team event (TM). **rClass:** Fixes the weighting used for the calculation of the Rating Points. **bClass:** Fixes the applied Bonus Points level.
- ^ Indicates the player is not eligible to represent the Association listed on the World Ranking list in World Title events.
^^ Indicates the player is not eligible to represent the Association listed on the World Ranking list in World or Continental Title events or in International Team events.
Eligibility for Olympic and Paralympic Games is regulated separately and differently.

For this list, Bonus Points and Penalty Points of the following competitions have expired (after 1 year) and have been removed.

DATE	Event	Type	rClass	bClass
29-04-2012	GAC GROUP Chile Open '12 - ITTF World Tour - DRAW	KO	22	3
22-04-2012	GAC GROUP Spanish Open '12 - ITTF World Tour - DRAW	KO	22	3
22-04-2012	French Junior & Cadet Open '12 - ITTF GJC - JR-DRAW	KO	22	4
22-04-2012	French Junior & Cadet Open '12 - ITTF GJC - CA-DRAW	KO	22	4
22-04-2012	New Zealand Junior & Cadet Open '12 - ITTF GJC - JR-DRAW	KO	22	4
22-04-2012	New Zealand Junior & Cadet Open '12 - ITTF GJC - CA-DRAW	KO	22	4
22-04-2012	South American Junior & Cadet Championships '12 - JR-DRAW	KO	32	4
22-04-2012	South American Junior & Cadet Championships '12 - CA-DRAW	KO	32	4
17-04-2012	Argentina Junior & Cadet Open '12 - ITTF GJC - JR-DRAW	KO	22	4
17-04-2012	Argentina Junior & Cadet Open '12 - ITTF GJC - CA-DRAW	KO	22	4
15-04-2012	Malta Junior & Cadet Open '12 - ITTF GJC - JR-DRAW	KO	22	4
15-04-2012	Malta Junior & Cadet Open '12 - ITTF GJC - CA-DRAW	KO	22	4
14-04-2012	ITTF-Africa Juniors Championships '12 - JR-DRAW	KO	32	4
14-04-2012	ITTF-Africa Juniors Championships '12 - CA-STAGE-2_GROUPS	GR	32	4
08-04-2012	Algeria Junior & Cadet Open '12 - ITTF GJC - JR-DRAW	KO	22	4
08-04-2012	Algeria Junior & Cadet Open '12 - ITTF GJC - CA-DRAW	KO	22	4
08-04-2012	Asian Cup '12 - DRAW	KO	32	4
08-04-2012	Asian Cup '12 - POSITIONS	KO	32	4

Next List scheduled to be released no later than: 21-May-2013 (No 06)

	Men	Women	Men's Results	Women's Results
Previous lists	1632	1240	89215	68401
These Lists	1635	1231	89417	68458



The International Table Tennis Federation

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Ottawa, Ontario, K1R 6Y6, Canada (CAN)
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News
Release

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For this list, results of the following competitions have been received and entered (**last day considered for results was 27-Apr-2013**):

DATE	Event	Type	rClass	bClass
06-04-2013	ITTF-African Junior, Cadet & U-21 Championships '13 - JR-TEAM	TM	3	
06-04-2013	ITTF-African Junior, Cadet & U-21 Championships '13 - JR-DRAW	KO	3	4
06-04-2013	ITTF-African Junior, Cadet & U-21 Championships '13 - CA-TEAM	TM	3	
06-04-2013	ITTF-African Junior, Cadet & U-21 Championships '13 - CA-GROUPS	GR	3	
06-04-2013	ITTF-African Junior, Cadet & U-21 Championships '13 - CA-DRAW	KO	3	4
06-04-2013	ITTF-African Junior, Cadet & U-21 Championships '13 - CA-RANK-DRAW	KO	3	
06-04-2013	ITTF-African Junior, Cadet & U-21 Championships '13 - YO-TEAM	TM	3	
06-04-2013	ITTF-African Junior, Cadet & U-21 Championships '13 - YO-DRAW	KO	3	
07-04-2013	Korea Open '13 - ITTF World Tour (MAJOR) - GROUPS	GR	2	
07-04-2013	Korea Open '13 - ITTF World Tour (MAJOR) - DRAW	KO	2	3
07-04-2013	Korea Open '13 - ITTF World Tour (MAJOR) - YO-GROUPS	GR	2	
07-04-2013	Korea Open '13 - ITTF World Tour (MAJOR) - YO-QUAL	KO	2	
07-04-2013	Korea Open '13 - ITTF World Tour (MAJOR) - YO-DRAW	KO	2	
07-04-2013	Malta Junior & Cadet Open '13 - ITTF GJC - JR-TEAM	TM	2	
07-04-2013	Malta Junior & Cadet Open '13 - ITTF GJC - JR-GROUPS	GR	2	
07-04-2013	Malta Junior & Cadet Open '13 - ITTF GJC - JR-DRAW	KO	2	4
07-04-2013	Malta Junior & Cadet Open '13 - ITTF GJC - JR-RANK-DRAW	KO	2	
07-04-2013	Malta Junior & Cadet Open '13 - ITTF GJC - CA-TEAM	TM	2	
07-04-2013	Malta Junior & Cadet Open '13 - ITTF GJC - CA-GROUPS	GR	2	
07-04-2013	Malta Junior & Cadet Open '13 - ITTF GJC - CA-DRAW	KO	2	4
07-04-2013	Malta Junior & Cadet Open '13 - ITTF GJC - CA-RANK-DRAW	KO	2	
14-04-2013	GAC Group 26th Table Tennis Asian Cup '13 - GROUPS	GR	3	
14-04-2013	GAC Group 26th Table Tennis Asian Cup '13 - QUAL	KO	3	
14-04-2013	GAC Group 26th Table Tennis Asian Cup '13 - DRAW	KO	3	4
21-04-2013	ITTF-Latin American Cup '13 - GROUPS	GR	3	
21-04-2013	ITTF-Latin American Cup '13 - DRAW	KO	3	4
21-04-2013	Butterfly Baltic Cup '13 - TEAM	TM	3	
21-04-2013	Butterfly Baltic Cup '13 - GROUPS	GR	3	
21-04-2013	Butterfly Baltic Cup '13 - DRAW	KO	3	4
21-04-2013	ITTF North American Cup '13 - GROUPS	GR	3	
21-04-2013	ITTF North American Cup '13 - DRAW	KO	3	4
27-04-2013	Argentina Junior & Cadet Open '13 - ITTF GJC - JR-TEAM	TM	2	
27-04-2013	Argentina Junior & Cadet Open '13 - ITTF GJC - JR-GROUPS	GR	2	
27-04-2013	Argentina Junior & Cadet Open '13 - ITTF GJC - JR-DRAW	KO	2	4
27-04-2013	Argentina Junior & Cadet Open '13 - ITTF GJC - JR-RANK-DRAW	KO	2	
27-04-2013	Argentina Junior & Cadet Open '13 - ITTF GJC - CA-TEAM	TM	2	
27-04-2013	Argentina Junior & Cadet Open '13 - ITTF GJC - CA-GROUPS	GR	2	
27-04-2013	Argentina Junior & Cadet Open '13 - ITTF GJC - CA-DRAW	KO	2	4
27-04-2013	Argentina Junior & Cadet Open '13 - ITTF GJC - CA-RANK-DRAW	KO	2	

WOMEN'S World Ranking

List No. 05

	1 (<<)	3157	DING Ning	CHN	*	67 (<<)	2280	NI Xialian	LUX
	2 (<<)	3114	LIU Shiwen	CHN		68 (<<)	2276	YOON Sunae	KOR
	3 (<<)	3026	LI Xiaoxia	CHN		69 (<<)	2275	LOVAS Petra	HUN
	4 (<<)	2859	FENG Tianwei	SIN	*	70 (62)	2273	SUN Beibei	SIN
*	5 (<<)	2763	GUO Yan	CHN		71 (74)	2270	LIU Gaoyang	CHN
	6 (8)	2740	ZHU Yuling	CHN		72 (<<)	2266	SHAN Xiaona ^	GER
	7 (6)	2716	SHEN Yanfei	ESP		73 (71)	2259	NONAKA Yuki	JPN
	8 (9)	2712	ISHIKAWA Kasumi	JPN		74 (89)	2257	LEE I-Chen	TPE
	9 (11)	2706	WU Yang	CHN	*	75 (<<)	2254	RI Mi Gyong	PRK
	10 (6)	2696	KIM Kyungah	KOR		76 (<<)	2252	KANG Misoon ^	KOR
	11 (10)	2686	CHEN Meng	CHN		77 (81)	2250	PARK Youngsook	KOR
	12 (13)	2661	FENG Yalan	CHN		78 (<<)	2248	PARTYKA Natalia	POL
	12 (<<)	2661	FUKUHARA Ai	JPN		79 (77)	2247	NG Wing Nam	HKG
	14 (15)	2646	JIANG Huajun	HKG		79 (73)	2247	RAMIREZ Sara	ESP
	15 (14)	2644	PAVLOVICH Viktoria	BLR		81 (80)	2237	LI Qiangbing	AUT
*	16 (15)	2630	GUO Yue	CHN		82 (<<)	2233	STRBIKOVA Renata	CZE
	17 (20)	2613	SEOK Hajung	KOR		83 (85)	2231	CHOI Moonyoung	KOR
*	18 (<<)	2610	WANG Yuegu	SIN		84 (<<)	2228	LI Fen ^	SWE
	19 (<<)	2585	SAMARA Elizabeta	ROU		85 (132)	2227	LI Jiayi	CHN
	20 (17)	2564	YANG Haeun	KOR		86 (83)	2226	FUKUOKA Haruna	JPN
	21 (32)	2559	SEO Hyowon	KOR		87 (85)	2224	TANIOKA Ayuka	JPN
*	22 (23)	2549	FAN Ying	CHN		88 (78)	2222	ISHIGAKI Yuka	JPN
	23 (21)	2545	DANG Yeseo	KOR		89 (87)	2216	BILENKO Tetyana	UKR
	24 (22)	2539	TIE Yana	HKG		89 (88)	2216	MATSUDAIRA Shiho	JPN
	25 (24)	2515	LI Jiao	NED		91 (96)	2211	NOSKOVA Yana	RUS
	26 (25)	2503	VACENOVSKA Iveta	CZE		92 (102)	2207	LIN Ye ^	SIN
	27 (26)	2473	LIU Jia	AUT		93 (90)	2206	TOTH Krisztina	HUN
	27 (<<)	2473	YU Mengyu	SIN		94 (101)	2202	ZHANG Lily	USA
	29 (31)	2459	JEON Jihee ^	KOR		95 (94)	2198	HSING Ariel	USA
	30 (49)	2447	CHENG I-Ching	TPE		96 (92)	2197	PERGEL Szandra	HUN
	30 (<<)	2447	WU Jiaduo	GER		97 (93)	2193	SKOV Mie	DEN
	32 (34)	2437	HIRANO Sayaka	JPN	*	98 (95)	2191	TAN Wenling	ITA
*	33 (28)	2436	LI Jiawei	SIN		99 (98)	2184	SONG Maeum	KOR
*	34 (29)	2432	LI Qian	POL		100 (97)	2181	SZOCS Bernadette	ROU
	35 (33)	2430	WEN Jia	CHN		101 (111)	2180	HU Melek	TUR
	36 (35)	2412	LI Xiaodan	CHN		102 (99)	2179	KOMWONG Nanthana	THA
	37 (58)	2409	LEE Ho Ching	HKG		102 (91)	2179	ZHOU Yihan ^	SIN
	38 (36)	2402	EKHOLM Matilda	SWE		104 (99)	2178	FADEEVA Oxana	RUS
*	39 (37)	2400	LI Jie	NED		104 (105)	2178	WU Xue	DOM
	40 (38)	2384	DODEAN Daniela	ROU	*	106 (103)	2163	RAO Jingwen	CHN
*	41 (40)	2383	CHANG Chenchen	CHN	c	107 (106)	2161	ONO Shiho	JPN
	41 (40)	2383	HAN Ying	GER		108 (106)	2153	MOLNAR Cornelia	CRO
	43 (47)	2381	HUANG Yi-Hua	TPE		109 (118)	2149	MAEDA Miyu	JPN
	44 (38)	2372	RI Myong Sun	PRK		110 (109)	2147	CECHOVA Dana	CZE
	45 (44)	2370	LI Xue ^	FRA		111 (121)	2142	DOO Hoi Kem	HKG
*	46 (43)	2366	PARK Miyoung	KOR		111 (108)	2142	ERDELJI Ana-Maria	SRB
	47 (45)	2364	PESOTSKA Margaryta	UKR		113 (112)	2141	GAPONOVA Ganna	UKR
	47 (42)	2364	SILBEREISEN Kristin	GER		114 (103)	2139	YAMANASHI Yuri	JPN
*	49 (46)	2356	MOON Hyunjung	KOR		115 (113)	2137	MIKHAILOVA Polina	RUS
	50 (70)	2341	FUJII Hiroko	JPN	*	115 (113)	2137	STEFANOVA Nikoleta	ITA
	51 (50)	2336	POTA Georgina	HUN		117 (115)	2132	LIN Chia-Hui	TPE
*	52 (51)	2330	KIM Jong	PRK		118 (116)	2131	GRUNDISCH Carole	FRA
	52 (51)	2330	XIAN Yifang	FRA		119 (117)	2130	PRIVALOVA Alexandra	BLR
	54 (55)	2329	GU Yuting	CHN		120 (119)	2122	TASHIRO Saki	JPN
	54 (53)	2329	SOLJA Petrisa	GER	*	121 (120)	2121	PAVLOVICH Veronika	BLR
	56 (54)	2322	IVANCAN Irene	GER		122 (145)	2120	KATO Miyu	JPN
	57 (58)	2317	SOLJA Amelie ^	AUT		123 (121)	2118	BALAZOVA Barbora	SVK
	58 (47)	2316	WAKAMIYA Misako	JPN		123 (110)	2118	ITO Mima	JPN
	59 (56)	2308	TIKHOMIROVA Anna	RUS		125 (123)	2114	MATSUZAWA Marina	JPN
	60 (<<)	2302	ZHAO Yan	CHN		126 (143)	2113	YOO Eunchoong	KOR
	61 (57)	2298	CHEN Szu-Yu	TPE		127 (124)	2108	TIAN Yuan	CRO
	61 (<<)	2298	LEE Eunhee	KOR	*	128 (126)	2102	TANG Liying	CHN
	63 (64)	2296	GU Ruochen	CHN		129 (128)	2096	FEHER Gabriela	SRB
	64 (65)	2294	YANG Xiaoxin ^^	FRA	c	130 (149)	2093	SAKAI Haruka	JPN
	65 (63)	2292	MORIZONO Misaki	JPN		131 (130)	2092	DVORAK Galia	ESP
	66 (<<)	2286	BARTHEL Zhenqi	GER		132 (127)	2089	MESHREF Dina	EGY

WOMEN'S World Ranking

List No. 05

	133	(131)	2087	HE Zhuojia	CHN	*	199	(196)	1921	GATINSKA Katalina	BUL
	133	(134)	2087	WINTER Sabine	GER		199	(193)	1921	SUZUKI Rika	JPN
*	135	(133)	2085	KIM Minhee (YOB=1991)	KOR		201	(194)	1920	LAM Yee Lok	HKG
	136	(174)	2082	GUAN Mengyuan	HKG	*	202	(198)	1919	WANG Huijing ^^	USA
	136	(129)	2082	STEFANSKA Kinga	POL		203	(197)	1915	MITTELHAM Nina	GER
	138	(135)	2077	PARKER Joanna	ENG	*	204	(199)	1914	HSIUNG Nai-I	TPE
*	139	(138)	2074	LI Chunli	NZL		205	(235)	1910	SILVA Yadira	MEX
*	140	(139)	2073	BOROS Tamara	CRO		206	(200)	1906	LI Ching Wan	HKG
	141	(125)	2069	POLCANOVA Sofia ^	AUT		206	(201)	1906	MUHLBACH Kathrin	GER
*	142	(140)	2068	LIU Xi	CHN		208	(204)	1904	BATRA Manika	IND
*	142	(135)	2068	YU Kwok See	HKG		209	(204)	1903	GASNIER Laura	FRA
nc	144	(unr)	2066	NIE Wei	CHN	*	209	(204)	1903	SAWETTABUT Suthasini	THA
i	145	(266)	2064	AMANO Yu	JPN		211	(237)	1901	LEE Dasom	KOR
	145	(141)	2064	LAY Jian Fang	AUS		212	(201)	1900	LI Isabelle Siyun	SIN
	147	(142)	2063	KITAOKA Eriko	JPN		212	(209)	1900	SZYMANSKA Antonina	POL
	148	(145)	2061	TROSHNEVA Elena	RUS		214	(211)	1899	GHATAK Poulomi	IND
*	148	(137)	2061	ZHENG Jiaqi ^^	USA	*	214	(211)	1899	KIM Mijeong	KOR
	150	(144)	2053	BOLLMEIER Nadine	GER		216	(213)	1896	MATELOVA Hana	CZE
	151	(150)	2051	MATSUMOTO Yuki	JPN		216	(213)	1896	NECULA Iulia	ROU
	152	(145)	2049	MADARASZ Dora	HUN		218	(201)	1895	MEDINA Paula	COL
*	152	(148)	2049	ODOROVA Eva	SVK		218	(215)	1895	TODOROVIC Andrea	SRB
	154	(unr)	2047	KIM Junghyun	KOR	*	220	(217)	1894	DOI Minami	JPN
*	155	(150)	2038	HUANG MENDES Lei ^	POR		221	(209)	1893	BARANOVA Olga	RUS
*	155	(154)	2038	KIM Hye Song	PRK	*	221	(218)	1893	DUBKOVA Elena	BLR
	157	(152)	2037	EERLAND Britt	NED		221	(238)	1893	HOU Yu-Ling	TPE
*	158	(156)	2031	ZHU Chaohui	CHN		224	(215)	1892	BALINT Bernadett	ROU
*	159	(158)	2027	TIMINA Elena	NED		224	(219)	1892	KERTAI Rita	HUN
*	160	(159)	2025	LIU Nai Hui ^^	USA		226	(220)	1891	DERERKO Zhenhua	AUS
	161	(157)	2024	FUJII Yuko	JPN		227	(221)	1887	DAS Mouma	BLR
	161	(160)	2024	ZHU Fang	ESP		228	(222)	1885	CIOBANU Irina	ROU
	163	(161)	2022	GRZYBOWSKA Katarzyna	POL		229	(225)	1883	HIRANO Yoko	JPN
	163	(152)	2022	KUMAHARA Caroline	BRA	*	229	(225)	1883	KIM Mingyung	KOR
	165	(191)	2021	JUNG Yumi	KOR		229	(225)	1883	SIBLEY Kelly	ENG
*	166	(163)	2013	KIM Song I	PRK	*	232	(228)	1880	SHIGEMOTO Sachie	JPN
	166	(unr)	2013	PARK Seonghye	KOR		233	(229)	1879	CHOI Jeongmin	KOR
	168	(162)	2009	CREEMERS Linda	NED	*	234	(231)	1877	DAS Mouma	IND
	169	(165)	2004	POSTOACA Camelia	ROU		234	(231)	1877	SZCZERKOWSKA Magdalena	POL
*	170	(164)	2003	ZHANG Mo	CAN	*	236	(223)	1875	WU Yue ^^	USA
	171	(166)	1985	CHENG Hsien-Tzu	TPE		237	(231)	1873	BLAZHKO Anna	RUS
	172	(167)	1981	LEE Hyunju	KOR	*	238	(234)	1872	BRAUN Eva	HUN
	173	(172)	1980	JO Yujin	KOR		238	(230)	1872	KRAFT Theresa	GER
*	173	(168)	1980	LIU Juan	CHN	*	240	(238)	1866	CHO Hala	KOR
	175	(169)	1979	AMBRUS Krisztina	HUN	*	241	(240)	1865	TSUCHIDA Miki	JPN
	175	(155)	1979	HAMAMOTO Yui	JPN		242	(236)	1858	BERHO Marina	FRA
	177	(170)	1978	HUANG Hsin	TPE	*	243	(241)	1856	SO Eka	JPN
*	178	(171)	1977	HWANG Jina	KOR		244	(256)	1855	FETUKHINA Margarita	RUS
	179	(181)	1976	HIRANO Miu	JPN	*	245	(241)	1854	NIWA Misato	JPN
	179	(172)	1976	RAKOVAC Lea	CRO	*	245	(241)	1854	SHOJI Yuki	JPN
	181	(174)	1971	HAN Xing	CGO	*	245	(241)	1854	SIN Hye Song	PRK
*	182	(176)	1970	HASAMA Nozomi	JPN	*	248	(245)	1853	POHAR Martina	SLO
	183	(177)	1969	ABBAT Alice	FRA	*	249	(246)	1852	CHA Yong Sim	PRK
*	184	(178)	1961	CHEN Xingtong	CHN		250	(289)	1850	KIM Byeolnim	KOR
	184	(178)	1961	DOLGIKH Maria	RUS		251	(248)	1847	IKEDA Yoshimi	JPN
	184	(180)	1961	SOO Wai Yam Minnie	HKG		252	(251)	1843	NEMOTO Riyo	JPN
	187	(182)	1956	LIU Na	IRL		253	(248)	1842	PFEFER Laura	FRA
	187	(182)	1956	PENKAVOVA Katerina	CZE		254	(247)	1841	SILVA Ligia	BRA
	189	(184)	1952	MOLNAR Monika	SRB		255	(252)	1837	PROSVIRNINA Natalya ^^	ESP
*	189	(184)	1952	RI Hyon Sim	PRK		256	(254)	1835	TIMINA Yana	NED
*	191	(186)	1949	LEE Sujin	KOR	*	257	(255)	1833	NG Ka Yee	HKG
	192	(223)	1947	MORITA Ayane	JPN	*	258	(257)	1828	LIU Hsing-Yin	TPE
	193	(188)	1940	LEE Eunhye	KOR	*	259	(258)	1827	XIE Xinyue	CHN
	193	(188)	1940	XIAO Maria ^^	ESP		260	(259)	1821	SATO Yui	JPN
	195	(192)	1935	MIAO Miao	AUS	*	260	(259)	1821	WANG Manyu	CHN
	196	(195)	1933	ABE Megumi	JPN	*	262	(261)	1820	CHEN Ke	CHN
ni	197	(unr)	1930	MORI Sakura	JPN		262	(261)	1820	PIETKIEWICZ Monika	POL
	198	(207)	1928	LEE Hyun	KOR		264	(263)	1819	DAS Ankita	IND

WOMEN'S World Ranking

List No. 05

	264	(252)	1819	ISHIKAWA Rira	JPN	*	331	(332)	1710	TIAN Maggie Meng ^^	USA
	266	(264)	1818	JEGER Mateja	CRO		332	(334)	1707	MIKULCOVA Kristyna	CZE
	267	(278)	1817	JI Eunhae	KOR		333	(335)	1706	MOTSYK Iryna	UKR
*	268	(267)	1816	JONG Un Ju	PRK	*	334	(339)	1705	LI Yijin	CHN
	269	(264)	1815	WABIK Sandra	POL	*	335	(341)	1703	EDEM Offiong	NGR
	270	(268)	1813	BARAVOK Katsiaryna	BLR		335	(324)	1703	GONDERINGER Tessy	LUX
*	271	(269)	1811	MIYAKE Natsumi	JPN		335	(<<)	1703	LOEUILLETTE Stephanie	FRA
*	272	(270)	1809	ICHIKAWA Azusa	JPN		335	(339)	1703	VEGA Paulina	CHI
	273	(271)	1807	EL-DAWLATLY Nadeen	EGY		339	(330)	1702	CORDERO Carelyn	PUR
*	274	(271)	1805	MUANGSUK Anisara	THA		339	(342)	1702	ERMAKOVA Irina	RUS
	275	(273)	1802	KUMARESAN Shamini	IND	*	341	(343)	1701	ISHIZUKA Miwako	JPN
	276	(307)	1800	VASYLIEVA Ievgeniia	UKR		341	(343)	1701	KOLTSOVA Anastasia ^	RUS
	277	(274)	1799	KUSINSKA Klaudia	POL		341	(343)	1701	MUKHERJEE Sutirtha	IND
	277	(274)	1799	TOMAZINI Jana	SLO		344	(346)	1699	SIKORSKA Magdalena	POL
*	279	(276)	1796	HIRICI Cristina	ROU		345	(335)	1698	IMAMURA Yuko	GER
*	280	(293)	1794	HANFFOU Sarah	CMR		345	(347)	1698	KHETKHUAN Tamolwan	THA
	281	(277)	1789	LEMMER Alena	GER	*	347	(348)	1697	NEVES Ana	POR
	282	(278)	1788	NAGYVARADI Mercedes	HUN		347	(348)	1697	PASTOR Agata	POL
*	282	(278)	1788	RAMOS Fabiola	VEN		347	(348)	1697	STUCKYTE Egle	LTU
	282	(278)	1788	VINCZE Andrada	ROU		347	(332)	1697	YEH Tung-Yi	TPE
	285	(354)	1787	LIU Yu-Hsin	TPE		351	(364)	1696	JHA Prachi	USA
*	285	(282)	1787	SHAO Jieni ^^	POR	*	351	(352)	1696	QIAN Tianyi	CHN
	287	(285)	1783	CHIU Ssu-Hua	TPE		353	(357)	1690	KUCEROVA Aneta	CZE
*	288	(286)	1781	HARABASZOVA Lenka	CZE		354	(348)	1686	LEE Zion	KOR
*	289	(282)	1778	GUI Lin	BRA	*	355	(358)	1685	AN Yeongeun	KOR
	289	(284)	1778	HSU Hui-Tsun	TPE		355	(370)	1685	MIGOT Marie	FRA
	291	(287)	1776	GOLOTA Marta	POL		357	(360)	1683	LIN Chia-Hsuan	TPE
*	291	(287)	1776	SANG Xu Stephanie	AUS		358	(356)	1681	OWEN Naomi	WAL
	293	(289)	1775	TRIFONOVA Polina ^	UKR		359	(361)	1680	TROSMAN Nicole	ISR
	294	(291)	1773	LENNON Emmanuelle	FRA		359	(361)	1680	TUBIKANEC Ivana	CRO
	295	(292)	1770	BYKOVA Maria	RUS		361	(363)	1679	GALONJA Marija	SRB
	295	(293)	1770	TSUI Pao-Wen	TPE		362	(unr)	1674	NAKAJIMA Misaki	JPN
*	297	(295)	1768	ARAKI Yuri	JPN		362	(365)	1674	ROSSIKHINA Anna	RUS
	297	(295)	1768	LUCZAKOWSKA Daria	POL		364	(367)	1672	SHARIPOVA Elza	RUS
*	297	(295)	1768	YU Mei-Ju	TPE	*	365	(368)	1671	CHIH De-Rong	TPE
*	300	(298)	1767	BLIZNET Olga	MDA	*	365	(368)	1671	FUJIHARA Miki	JPN
	300	(298)	1767	SMISTIKOVA Martina	CZE		367	(359)	1668	TSISTJAKOVA Tatjana	EST
*	302	(300)	1765	KASABOVA Asya	BUL		368	(371)	1666	BERGSTROM Linda	SWE
*	303	(302)	1764	OSHONAIKE Olufunke	NGR		369	(372)	1665	PAPADAKI Angeliki	GRE
	304	(303)	1761	BARTOSOVA Hana	CZE	*	370	(373)	1664	PRABHU Mamata	IND
	305	(300)	1757	CHERNOVA Daria	RUS		370	(373)	1664	TRUZSINSZKI Viktoria	SRB
	305	(304)	1757	ISTRATE Roxana	ROU		372	(375)	1662	SLIFIRCZYK Katarzyna	POL
	307	(306)	1751	MANTZ Chantal	GER	*	373	(376)	1659	MATSUURA Akiko	JPN
*	308	(<<)	1749	CHANG Ya-Chuan	TPE	*	374	(377)	1656	SABITOVA Valentina	RUS
	309	(<<)	1747	LEE Yearam	KOR		375	(422)	1654	KUCHUK Maryia	BLR
	309	(<<)	1747	VIVARELLI Debora	ITA		376	(384)	1653	FENYVESI Anna ^	SRB
	311	(305)	1745	YAMADA Jessica	BRA		376	(379)	1653	LUPULESKU Anelia	SRB
	312	(311)	1744	MAKSUTI Aneta	SRB	*	378	(380)	1652	KIM Eunji	KOR
*	313	(<<)	1739	TOMANOVA Tamara	CZE		378	(380)	1652	PETERMAN-VARGA Timea	HUN
	314	(312)	1736	LIN Chia-Chih	TPE	*	380	(383)	1651	LEE Yujin	KOR
	314	(<<)	1736	RIDOLFI Lisa	ITA	*	380	(382)	1651	SHAGAROVA Yelena	KAZ
	316	(<<)	1735	HUANG Yu-Wen	TPE	*	382	(384)	1648	CHRISTOFORAKI Maria	GRE
	317	(<<)	1734	PATKAR Madhurika	IND		383	(378)	1646	DESPANDE Divya	IND
	318	(314)	1733	KHLYZOVA Elizaveta	RUS	*	383	(386)	1646	TAMASAUSKAITE Egle ^	LUX
	318	(<<)	1733	RODRIGUEZ Berta	CHI		385	(388)	1644	HSU Ya-Ting	TPE
	320	(354)	1732	FARLADANSKA Ganna	UKR	*	386	(389)	1642	CHEN Hung-Ting	TPE
	321	(353)	1731	KANG Haneul	KOR		386	(389)	1642	TOMANOVSKA Katerina	CZE
*	322	(319)	1729	LI Xiang	CHN		388	(391)	1641	ADAMKOVA Karin	CZE
	323	(321)	1721	BAJOR Natalia	POL		388	(387)	1641	DIACONU Adina	ROU
	324	(<<)	1720	GUSEVA Ekaterina	RUS	*	390	(392)	1640	VLASOVA Olga	RUS
*	325	(327)	1716	DURCIK Aliz	SRB	*	391	(394)	1637	JIANG Yue	CHN
	326	(328)	1715	CHIN Hsiao-Chun	TPE		392	(395)	1636	GALIC Alex	SLO
	327	(322)	1714	BERGE Sarah	FRA		392	(396)	1636	LUO Anqi	CAN
	327	(323)	1714	DE NUTTE Sarah	LUX		394	(392)	1635	WAN Yuan	GER
*	329	(<<)	1713	RADONJIC Aleksandra	SRB		395	(398)	1633	KRZEWICKA Maja	POL
	330	(<<)	1711	SCHUH Anja	GER		395	(399)	1633	MORET Rachel	SUI

WOMEN'S World Ranking

List No. 05

	397 (401)	1630	MUKHERJEE Ayhika	IND		462 (466)	1539	LEBEDEVA Victoria	RUS
	398 (399)	1629	VERMAAS Kim	NED		462 (463)	1539	LUPU Diana	ROU
*	399 (401)	1627	TOLIOU Aikaterini	GRE	*	462 (466)	1539	TOMIC Mirna	CRO
	399 (445)	1627	VARGAS Francesca	PER		466 (468)	1538	HUANG Yu-Chiao	TPE
	401 (366)	1626	HO Tin-Tin	ENG	*	466 (468)	1538	LO Lok Yee	HKG
	402 (403)	1622	EL-SOKARY Sara	EGY	*	466 (470)	1538	SHEN Tiantian	CHN
*	403 (404)	1621	SAVELYEVA Antonina	RUS		469 (470)	1537	JIMENEZ Leisy	CUB
	404 (396)	1615	CHOI Yelin	KOR	*	470 (473)	1535	LI Tao ^^	USA
	404 (405)	1615	KARAGODINA Inna	BLR	*	471 (474)	1533	NAM Jin	KOR
	406 (430)	1613	CAREY Charlotte	WAL	*	472 (477)	1532	SEMENOVA Alexandra	RUS
	407 (406)	1610	GALITSCHITSCH Nicole	AUT	*	472 (476)	1532	THONGSUB Laksika	THA
	408 (407)	1609	LEVEQUE Anais	FRA		474 (478)	1528	MARTIAL Chloe	FRA
*	409 (410)	1607	LI Yue ^^	CAN		475 (479)	1527	RUANO Lady	COL
	410 (407)	1606	STEFKOVA Kristyna	CZE		475 (472)	1527	SHAHSAVARI Neda	IRI
*	411 (<<)	1601	SODA Tomoyo	JPN		477 (480)	1526	LIN Chia-Yu	TPE
	412 (<<)	1599	FAJMUT Manca	SLO		478 (481)	1525	KACZMAREK Agnieszka	POL
*	413 (414)	1597	REMZI Sibel	BUL		479 (482)	1524	CHEN Yen-Hsin	TPE
*	414 (415)	1596	LI Li-Jung	TPE		480 (482)	1523	NOWOCIN Katarzyna	POL
	415 (413)	1595	CLAPA Andreea	ROU	*	481 (482)	1522	RUVMAN Natali	ISR
*	416 (<<)	1594	LEE Seul	KOR	*	482 (486)	1521	JEE Dayoung	KOR
*	417 (416)	1593	BLASKOVA Dagmar	CZE		482 (486)	1521	LUNG Lisa	BEL
	417 (418)	1593	NOWACKA Paulina	POL	*	484 (495)	1518	HAO Hao	CHN
*	417 (419)	1593	ZHAO Jenny	USA		485 (490)	1517	BUENO Paula	ESP
	420 (<<)	1590	HUGH Judy	USA	*	485 (490)	1517	KARASIOVA Lizaveta	BLR
	420 (<<)	1590	PAUL Mousumi	IND	*	485 (490)	1517	MARTINS Catia	POR
*	422 (423)	1588	WANG Xinyue ^^	USA		488 (493)	1513	MARCHETTI Nathalie	BEL
*	423 (427)	1584	LOVERIDGE Alice	GGY		489 (485)	1512	HAYAMA Karina	BRA
*	424 (427)	1583	VENSLAVICIUTE Ieva	LTU		489 (496)	1512	MORI Angela	PER
*	425 (<<)	1582	DEBONNE Estelle	FRA	*	491 (497)	1511	RATTANAVONGSA Rattanaorn	THA
	425 (429)	1582	MOSKOVITS Daniela	SWE		492 (500)	1510	MORALES Judith	CHI
	425 (424)	1582	TRUKSOVA Lucia	SVK	*	492 (498)	1510	MUKHERJEE Sagarika	IND
	428 (430)	1581	AGGARWAL Neha	IND		492 (498)	1510	MYNAROVA Karolina	CZE
	428 (426)	1581	MALANINA Maria	RUS		492 (486)	1510	ZARIF Audrey	FRA
	430 (<<)	1580	AGERHOLM Pernille	DEN	*	496 (500)	1509	KIM Yedam	KOR
*	430 (433)	1580	RASK Sara	SWE	*	497 (503)	1506	SRITAVARIT Apichaya	THA
*	432 (434)	1579	EXARCHOU Filareti	GRE		498 (503)	1505	ESTRADA Andrea	GUA
	433 (439)	1578	WU Erica	USA	*	498 (505)	1505	FULOP Szilvia	HUN
*	434 (435)	1576	CHUNG Rheann	TRI		500 (<<)	1504	ARVELO Gremlis	VEN
*	434 (435)	1576	WANG Yi-Ju	TPE		500 (506)	1504	KONSBRUCK Danielle	LUX
	436 (437)	1574	JURKOVA Eva	SVK	*	502 (508)	1501	FU Shirley ^	CAN
	436 (437)	1574	TAKEUCHI Kana	JPN		503 (507)	1499	ZETSEN Nicky	NED
*	438 (440)	1572	DEGTIAR Iouliia	CAN	*	504 (509)	1498	HUANG Fanzhen	CHN
*	439 (442)	1571	KIM Dahae	KOR		504 (493)	1498	YUEN Sara	CAN
	440 (443)	1568	TENNISON Reeth	IND	*	506 (510)	1496	GONCALVES Mariana	POR
	441 (440)	1567	CHASSELIN Pauline	FRA	*	507 (511)	1494	KOTSYUR Valeria	RUS
	441 (444)	1567	MOKHNACHEVA Svetlana	RUS		508 (512)	1493	HASSAN Sara	EGY
*	443 (445)	1565	LEE Yaeji	KOR		508 (513)	1493	MUSTELIER Sandra	CUB
	444 (447)	1560	ZUPANCIC Nina	SLO	*	510 (513)	1492	COLANTONI Chiara	ITA
	445 (447)	1559	ASCHWANDEN Rahel	SUI		510 (513)	1492	HEPKE Johanna	HUN
*	446 (449)	1558	KIM Mun Yong	PRK		512 (516)	1490	KHALIKOVA Alfiya	RUS
*	447 (451)	1554	CAMPBELL-INNES Peri	AUS	*	513 (517)	1487	SCHARRER Laura	SUI
	448 (450)	1553	HADZIAHMETOVIC Emina	BIH		514 (518)	1485	ENGELSON Maria	SWE
	449 (453)	1552	VETOKHINA Anastasia	RUS		515 (519)	1484	SAHASRABUDHE Pooja	IND
	450 (454)	1551	BHANDARKAR Mallika	IND		516 (522)	1482	KATO Yuko	JPN
	450 (454)	1551	TROTTI Elisa	ITA	*	517 (521)	1481	CHOW Wai Yeung	HKG
*	452 (457)	1547	LIU Tianyu	CHN		517 (unr)	1481	LATT Katlin	EST
*	453 (458)	1546	SLADKOVA Nataliya	KAZ		517 (520)	1481	SOPOSKI Roza	FRA
	453 (458)	1546	ZALOMSKA Roksana	POL	*	520 (522)	1480	MELNIKOVA Victoria	RUS
	455 (474)	1544	KAWAI Katia	BRA		521 (525)	1479	BARENDREGT Alice	NED
*	455 (460)	1544	PANNAK Piyaporn	THA		522 (525)	1478	ZHMUDENKO Iana	UKR
*	457 (462)	1543	JONSSON Jennifer	SWE		523 (529)	1477	LEE Chun-Hui	TPE
	458 (460)	1542	BRITO Eva	DOM		524 (542)	1476	LORENZOTTI Maria	URU
*	459 (463)	1541	GOLUBEVA Anastasiya	RUS		525 (527)	1475	WANG Ting-Lyu	TPE
	459 (463)	1541	PETEK Petra	CRO		526 (556)	1473	YOON Hyobin	KOR
	461 (489)	1540	DOAA Alia	EGY		527 (528)	1472	ANG Wan Qi	SIN
	462 (456)	1539	CODINA Ana	ARG		528 (522)	1470	IWASA Agustina	ARG

WOMEN'S World Ranking

List No. 05

	529 (530)	1469	HICKS Hannah	ENG	*	593 (600)	1394	YUEN Stephanie	CAN
	530 (533)	1468	EMINOVA Bilura	AZE		596 (600)	1393	BOLENIUS Sannamari ^	SWE
*	531 (<<)	1467	SANDUL Alina	MDA	*	596 (602)	1393	CHEN Chermaine ^	AUS
*	532 (533)	1466	MOZYAKINA Nadezda	RUS	*	598 (604)	1391	ROSCA Andreea	ROU
	533 (535)	1465	YEE Heng Hwee	SIN	*	599 (605)	1389	NG Wing Kei	HKG
	534 (537)	1463	KARLSSON Michaela	SWE		599 (626)	1389	PREIDZIUTE Ingrida	LTU
c	535 (540)	1462	KIM Jiho	KOR		599 (605)	1389	WANG De Ying	ESA
	536 (531)	1461	GUNGOR Gokce Nur	TUR		602 (607)	1386	LOYEN Eline	BEL
	537 (536)	1459	MAK Tze Wing	HKG	*	603 (608)	1384	DAS Priyadarshini	IND
	538 (537)	1458	OMRANI Mahjobeh	IRI	*	604 (609)	1383	SAHA Sumana	IND
	539 (537)	1456	ZIELINSKA Anna	POL		605 (613)	1382	DIAZ Adriana	PUR
	540 (549)	1451	ABDEL-AZIZ Farah	EGY	*	605 (609)	1382	KURIMAY Dora	USA
	540 (541)	1451	NASSER Galila	EGY		607 (612)	1379	KALUZNA Natalia	SVK
	542 (546)	1450	IMRE Lejla	HUN		608 (618)	1377	RYDEN Lisa	SWE
	543 (546)	1448	JACOBSEN Mie	DEN		609 (611)	1374	MONTERO Winberly	VEN
	544 (548)	1447	KIOUFI Alike Maria	GRE		610 (615)	1373	LESNIAK Alicja	POL
	544 (542)	1447	VALDEZ Johenny	DOM		610 (618)	1373	YOUSRY Noha	EGY
*	546 (551)	1443	HUNG Hung	TPE	*	612 (616)	1372	ANGELOVA Ivanka	BUL
	547 (553)	1441	ARGUELLES Camila	ARG	*	612 (616)	1372	ZHANG Zi Yu Sally	AUS
	547 (553)	1441	FINS Rita	POR	*	614 (618)	1371	STYGAR Diana	UKR
	549 (542)	1440	KARAHAN Ipek	TUR		615 (621)	1369	BAYEVA Katsiaryna	BLR
*	549 (555)	1440	WON Jieun	KOR		615 (621)	1369	ZAVITSANOU Georgia	GRE
*	551 (556)	1439	KIM Taeyeon	KOR		617 (623)	1368	ALEXANDRE Bruna	BRA
*	551 (564)	1439	RYBKA Anastasiia	UKR		618 (625)	1366	CAMPION Camille	FRA
	551 (545)	1439	SAHIN Sanem	TUR		619 (626)	1362	JOHANSSON Tilda	SWE
	554 (558)	1437	ABDEL-AZIZ Shima	EGY	ni	619 (unr)	1362	KUZNETSOVA Alexandra	RUS
	554 (594)	1437	ZETTERSTROM Kristina	SWE		619 (626)	1362	SZYMANSKA Olga	POL
*	556 (561)	1436	CAMPBELL-INNES Claire	AUS		622 (629)	1361	CHRISTENSEN Stefanie	DEN
	556 (561)	1436	EL-SHOBARY Reem	EGY		622 (629)	1361	GUTNIK Katja	SLO
	558 (563)	1435	SVARC Ana	CRO	*	624 (632)	1360	GATS Yuliya	KAZ
	559 (558)	1434	VAN DUIN Rianne	NED		624 (632)	1360	NAGYPAL Csilla	HUN
	560 (566)	1431	LUND Josefin	SWE		626 (631)	1359	EISE Lilli	GER
*	561 (564)	1430	DIEKER Suzanne	NED	*	627 (634)	1357	KUO Chia-Yun	TPE
	562 (567)	1428	JABLONSKA Kinga	POL		628 (636)	1356	SAMADI Parisa	IRI
	563 (568)	1427	SINGEORZAN Arina	ROU	*	629 (634)	1355	SODERLUND Ida	SWE
	564 (568)	1426	JAZBEC Ida	CRO	*	630 (640)	1352	BIKEEVA Polina	RUS
*	564 (568)	1426	LEE Yu-Peng	TPE	*	630 (636)	1352	KIM Juyoung	KOR
c	566 (597)	1425	KANG DaYeon	KOR	*	630 (636)	1352	WONG Chung Wan	HKG
	567 (573)	1424	DIAZ Melanie	PUR	i	633 (737)	1351	LIN Tina	USA
	568 (573)	1423	CRISAN Bianca	ROU		633 (639)	1351	OVCHINNIKOVA Olga	RUS
	568 (<<)	1423	KIEDROWSKA Joanna	POL		635 (640)	1348	JONCZYK Ada	POL
*	570 (575)	1420	SIM HyunJu	KOR		636 (642)	1346	LOPEZ Analdy	GUA
	571 (576)	1419	BANU Nikhat	IND	*	636 (642)	1346	LOPEZ Berta	ESP
	572 (577)	1416	GRECHISHNIKOVA Kristina	RUS	*	638 (644)	1344	DIAS Priscila	BRA
	573 (594)	1415	NIKITCHANKA Alina	BLR		639 (645)	1343	BRACCO Bianca	ITA
	574 (580)	1413	ENRIQUEZ Mabelyn	GUA	*	639 (645)	1343	D'SOUZA Senhora	IND
	574 (572)	1413	LOW Katherine	CHI	*	641 (648)	1342	LAM Tengsi	SIN
	576 (582)	1412	KAIM Julia ^	GER		641 (691)	1342	NAKADA Leticia	BRA
	576 (580)	1412	KARNAM Spoorthy	IND		643 (649)	1341	GUINEL Oceane	FRA
	576 (579)	1412	MISCHEK Karoline	AUT	*	643 (649)	1341	LEE En-Ya	TPE
*	579 (582)	1411	LEE Carmen	CAN		645 (<<)	1339	KETSKO Olesja	EST
	579 (582)	1411	SOFRONOVA Alexandra	RUS		646 (672)	1337	PHILLIPS Megan	WAL
	581 (599)	1408	PATSEYEVA Hanna	BLR		646 (651)	1337	SAMET Maryam	IRI
*	582 (586)	1407	GARNOVA Tatiana	RUS		648 (654)	1331	GRIGORYEVA Ksenia	RUS
*	583 (588)	1406	BATES Emily	ENG		649 (653)	1329	WOLF Jennie	GER
	584 (592)	1404	RIOS Daniely	PUR	*	650 (652)	1328	MENESES Cristal	CHI
*	585 (591)	1403	NILSEN Marthe	NOR	*	650 (655)	1328	SUN Wen	CHN
*	586 (588)	1402	OHIRA Lia	BRA	c	652 (658)	1324	HOSAM Reem	EGY
	587 (602)	1401	HELMY Yousra	EGY	*	653 (661)	1323	DRYKINA Yana	BLR
	587 (592)	1401	PICCOLIN Giorgia	ITA	*	653 (658)	1323	LEE En-Chi	TPE
	589 (558)	1400	ROZINKOVA Daniela	CZE	*	653 (658)	1323	SUNDARAJAN Narasimha	IND
*	590 (597)	1399	ZHAO Ke	CHN		656 (<<)	1322	DU Anna	AUS
*	591 (594)	1398	PIATLINA Yuliya	BLR		657 (662)	1319	DUMITRACHE Cristiana ^	ITA
	592 (588)	1397	CHOMIS Marion	FRA		657 (662)	1319	JAFFEUX Emilie	FRA
	593 (624)	1394	EL-ERAKY Reem	EGY	*	657 (662)	1319	SONG Xiyao	USA
	593 (582)	1394	KNYSZEWSKA Paulina	POL		660 (665)	1317	AASEBO Marte	NOR

WOMEN'S World Ranking

List No. 05

	660 (667)	1317	RAHMO Aida	EGY	*	725 (730)	1255	ZHENG Shannon	CAN
	662 (668)	1314	CAUSSE Maeva	FRA		728 (733)	1253	MATHIEU Malaurie	FRA
*	663 (668)	1313	KOKAVCOVA Lucia	SVK		729 (730)	1249	BUI Vy	AUS
*	663 (668)	1313	NG Xueqi	SIN		729 (735)	1249	LEUNG Tsz Ching Vanness	HKG
*	665 (671)	1311	TANG Cheryl	SIN	*	729 (734)	1249	LIAO Shih-Yun	TPE
	666 (657)	1309	NINO Neridee	VEN	*	732 (738)	1244	MAKUMPORN Pisittha	THA
*	667 (673)	1307	PARANANG Orawan	THA		733 (739)	1243	SAGER Luisa	GER
	667 (666)	1307	PETROVA Valeria	EST	*	734 (743)	1242	CHUA Wan Zhen	MAS
*	669 (675)	1305	PENG Kai	AUS	*	734 (740)	1242	KING Yolanda	ENG
	670 (676)	1304	CHERNORAY Daria	RUS		734 (740)	1242	KOVAC Ajla	BIH
nf	671 (unr)	1302	ULASENKA Hanna	BLR		734 (740)	1242	MOSCONI Veronica	ITA
*	672 (678)	1301	LUGINGER Melanie	AUT	*	738 (743)	1241	STAMMET Annick	LUX
	672 (691)	1301	SHOUMAN Fagr	EGY		739 (848)	1237	TOMA Lais	BRA
	674 (681)	1298	LOVET Idalys	CUB	*	740 (745)	1236	DEPUYDT Wendel	BEL
*	674 (677)	1298	OGRINE Pauline	FRA	*	740 (748)	1236	LY Li Quan	CAN
*	674 (679)	1298	ZHONG Ci Ci Yingsi ^^	AUS	*	740 (745)	1236	SMITH Vicky	ENG
	677 (680)	1296	TRIFU Bogdana	ROU	*	743 (747)	1233	O'REILLY Edel	IRL
*	678 (682)	1294	YANG Fan ^^	NZL		744 (781)	1231	ORTEGA Daniela	CHI
*	679 (683)	1293	BARCIAKOVA Lubica	SVK		744 (749)	1231	UZEL Damla	TUR
*	679 (683)	1293	KRAJEWSKA Marta	POL		746 (750)	1228	LIU Chia-Ling	TPE
	681 (686)	1292	BAGAPOVA Valeria	RUS	*	746 (750)	1228	ZHOU Teri ^	CAN
*	681 (683)	1292	KIZIUK Kateryna	UKR		748 (752)	1223	PHILLIPS Angharad	WAL
*	681 (686)	1292	LEE EunSeob	KOR	*	749 (754)	1221	DAWSON Jessica	ENG
*	681 (686)	1292	TSEKOURA Dimitra	GRE	c	749 (758)	1221	MAHMOUD Nour-Allah	EGY
	685 (689)	1291	PERDOMO Maria	COL		749 (798)	1221	VENCKUTE Vitalija	LTU
	685 (689)	1291	VAN ACKER Florence	BEL	*	752 (757)	1220	BASHMAKOVA Kateryna	UKR
*	687 (693)	1289	LAVROVA Anastassiya	KAZ		752 (753)	1220	LUPULESKU Izabela	SRB
*	688 (697)	1287	CHUNG Hsiao-Wen	TPE		754 (758)	1218	AASEBO Anna	NOR
*	688 (695)	1287	WESTENRA Sabine	NZL		755 (761)	1217	KMETOVA Veronika	CZE
*	690 (697)	1286	CIESZCZYK Natalia	POL	*	755 (761)	1217	OOKA Hiroka	JPN
	690 (814)	1286	GALUS Katarzyna	POL	*	757 (763)	1215	BERNS Jill	LUX
	690 (695)	1286	NWACHUKWU Onyinyechi	CGO		758 (767)	1214	RAMIREZ Laura	ESP
	690 (697)	1286	ORELLANA Sandra	ESA	*	759 (764)	1213	CHEN Ting-Ting	TPE
*	694 (700)	1284	ZALOZNIK Tjasa	SLO		759 (764)	1213	KOLISH Anastasia	RUS
*	695 (701)	1283	LIM Yena	KOR		759 (769)	1213	PUI Christina	CAN
	695 (694)	1283	SAINT-DIZIER Eloise	FRA		759 (764)	1213	ZHANG Xuan	ESP
*	697 (702)	1282	SCHLINK Vinita	LUX	*	763 (769)	1210	TAPPER Melissa	AUS
	698 (703)	1281	CHRULSKA Zuzanna	POL		764 (754)	1209	ESCARTIN Nora	ESP
*	699 (704)	1279	MENDERGIS Suzana	SRB		764 (760)	1209	LALAK Karolina	POL
	700 (704)	1278	FUDERER Dalma	HUN	*	764 (772)	1209	WOZNAK Zuzanna	POL
*	700 (706)	1278	PANARINA Maria	RUS		767 (769)	1208	FURKOVA Karolina	SVK
nc	702 (unr)	1277	LORTSANKA Irina	BLR		767 (773)	1208	MICHORCZYK Natalia	POL
	703 (708)	1275	TAKAHASHI Bruna	BRA	*	767 (773)	1208	NAWROCKA Klaudia	POL
	703 (707)	1275	TROTTI Francesca	ITA	c	770 (811)	1207	GUAN Angela	USA
	705 (709)	1272	ARAYA Angie	CRC		770 (767)	1207	KAPOUNOVA Barbora	CZE
*	706 (711)	1270	ZHUKOUSKAYA Lizaveta	BLR		772 (776)	1205	SELICKA Silvia	SVK
*	707 (710)	1269	POPOV Branislava	SRB		773 (777)	1204	SAMET Mahshid	IRI
	708 (716)	1268	LAID Islem	ALG		774 (778)	1203	IRRAZABAL Romina	PER
	709 (717)	1267	SAAD Alaa	EGY		774 (778)	1203	KEROUSOVA Michaela	CZE
	710 (713)	1266	AHMADOVA Sabina	AZE		774 (754)	1203	KHALED Salma	EGY
*	710 (713)	1266	SEO Minjeong	KOR		777 (780)	1201	FEHER Orsolya	HUN
	712 (717)	1263	MARKATI Paula	CRO		778 (781)	1199	GELMAN Shelli	ISR
*	712 (717)	1263	TATIANINA Tetiana	UKR	*	778 (775)	1199	ORTIZ Maria	PER
*	714 (720)	1262	BEAUMONT Michelle	AUS		780 (unr)	1196	HASSAN Oluwafunke	NGR
	714 (720)	1262	VEJNOVIC Ivana	SRB		780 (838)	1196	LI Joy	USA
	716 (723)	1260	FAUVEL Amanda ^^	SUI		782 (824)	1195	TSAPTSINOS Maria	ENG
	716 (725)	1260	JIANG Diane	USA	*	783 (<<)	1194	FERNANDEZ Catalina	CHI
	716 (735)	1260	MUSTAFA Huda	SWE		784 (<<)	1193	LUCENA Josmary	VEN
*	719 (724)	1259	SREBRNJAK Dorina	CRO		785 (786)	1192	MOTA Joana	POR
	720 (722)	1258	HACKEMACK Lauranne	BEL	*	785 (787)	1192	WANG Ching	TPE
	721 (725)	1257	AGOSTON Tamara	SRB		787 (788)	1191	CISARIKOVA Adriana	SVK
f	721 (713)	1257	BENCHORA Inessa	ALG	*	787 (788)	1191	RAICH Theresa	AUT
	721 (725)	1257	VERONIK Zala	SLO		787 (784)	1191	SANDEHN Alexandra	SWE
	724 (728)	1256	RUB Elina	RUS	*	787 (791)	1191	YOON Haein	KOR
	725 (728)	1255	KRSIAKOVA Miriama	SVK		791 (792)	1188	DEGRAEF Margo	BEL
*	725 (730)	1255	LIU Qi	HKG		792 (794)	1186	PUNNONEN Henrika	FIN

WOMEN'S World Ranking

List No. 05

*	792	(793)	1186	TSAI Yu-Chin	TPE	858	(861)	1135	RUSINOVA Diana	LAT	
	794	(<<)	1185	SAVIC Aleksandra	SRB	860	(883)	1134	TSIKHANAVA Lizaveta	BLR	
*	795	(790)	1183	AGUERRE Maria	ARG	861	(867)	1131	BAHUCHARSKAYA Yana	BLR	
*	795	(796)	1183	EDWARDS Gillian	SCO	*	861	(858)	1131	KAJIHARA Caroline	BRA
	795	(796)	1183	SURJAN Sabina	SRB	*	861	(863)	1131	VARDANYAN Rubina	ARM
*	798	(800)	1182	KAGOHARA Caroline	BRA		864	(<<)	1129	CARASSIA Claudia	ITA
	799	(802)	1180	NAVARRO Denisse	CRC		865	(864)	1128	ORLOVAITE Egle	LTU
	800	(803)	1179	GIVAN Ashley	IRL		866	(861)	1126	BASKUTYTE Ugne	LTU
*	800	(<<)	1179	KOZMA Karmen	EST		867	(910)	1125	YOUSRY Amira	EGY
*	800	(798)	1179	VIZINOVA Dominika	SVK		868	(<<)	1123	OMBLA Matea	CRO
	803	(804)	1178	PEREZ Karla	ESA		869	(870)	1122	MADLALA Khanyisile	RSA
	803	(809)	1178	SAID Mennatalla	EGY		870	(872)	1121	KUSANKOVA Elena	RUS
*	805	(<<)	1177	ALBUQUERQUE Diana	POR	c	870	(882)	1121	SABRY Nermin	EGY
	806	(810)	1176	CHU Isabel	USA		872	(<<)	1120	HARTBRICH Leonie	HUN
	806	(<<)	1176	SERRANO Monica	MEX		872	(<<)	1120	KIM Haeun	KOR
	806	(<<)	1176	SHCHETINKINA Valeria	RUS	*	874	(870)	1118	MARTINEZ Fatima	PAR
*	809	(808)	1175	WU Yi-Hua	TPE		875	(876)	1117	GULIYEVA Rufat	AZE
	810	(813)	1171	VRDOLJAK Vlatka	CRO	*	876	(877)	1116	LI Rongdi	CHN
*	810	(811)	1171	YU Zhu	CHN	*	877	(879)	1115	BARBA Sofia	ESP
*	812	(814)	1168	ANDREEVA Ksenia	RUS		877	(unr)	1115	SEITON Kristiina	EST
*	812	(814)	1168	LIM Yi Xuan	SIN		879	(864)	1114	MORAD Reem	EGY
	812	(825)	1168	MOLERO Candela	ARG		880	(881)	1113	OVIIR Riin	EST
*	815	(817)	1167	WONG Wing Tung	HKG		881	(unr)	1112	PRUDIUS Margaryta	UKR
	816	(818)	1166	LEE Daac	KOR	*	882	(883)	1111	JANKOVIC Sonja	MNE
	816	(818)	1166	MONTUFAR Andrea	GUA		882	(886)	1111	SEVCIKOVA Marketa	CZE
*	816	(818)	1166	PARIDI Konstantina	GRE	*	882	(883)	1111	SKOROBOGATKO Oleksandra	UKR
	819	(891)	1165	HARIMA Maia	ARG	*	885	(877)	1110	NIETO Janina	PER
*	820	(821)	1164	LAW Yee Lam	HKG	*	886	(888)	1109	KIM Subin	KOR
*	820	(821)	1164	NG Yuen Wai	HKG		886	(889)	1109	PAVCNIK Tamara	SLO
	822	(821)	1162	THOMAS Chloe	WAL		888	(880)	1108	BEN SLAMA Sarra	TUN
	823	(838)	1160	COULOMBE Annie	CAN	*	888	(889)	1108	ORLIC Lorena	CRO
*	824	(825)	1158	ZHANG Sisi (1988)	AUS	*	890	(892)	1106	KU Kyojin	KOR
*	825	(827)	1157	GAUTHIER Cathy	NCL		890	(894)	1106	OKSANEN Jannika	FIN
*	825	(827)	1157	JI Soomin	KOR		892	(893)	1104	CHATZILYGEROUDI Georgia	GRE
*	827	(829)	1156	HER-LEE Sarah	NZL		893	(894)	1103	MENDEZ Alejandrina	MEX
*	827	(832)	1156	MARAMBA Madushani	SRI		894	(900)	1102	BOURS Melissa	NED
*	827	(829)	1156	PANKOVA Sabina	BLR		895	(896)	1101	TORRES Nicole	PUR
*	830	(834)	1154	IVANOVA Svetlana	RUS	*	896	(897)	1099	CAMINO Daniela	ECU
	830	(834)	1154	SZVITACS Alexa	HUN		897	(898)	1098	KUNATS Maya	BLR
	832	(<<)	1151	ERIKSSON Pinja	FIN	*	897	(898)	1098	SILVA Maria	MEX
*	832	(836)	1151	SOUZA YAMAMOTO Sarah	BRA	*	899	(900)	1097	YOVKOVA Krasimira	BUL
	832	(836)	1151	VILA Lineth	DOM	nc	900	(unr)	1096	KAZEEM Fatima	NGR
*	835	(838)	1149	LIU Charlene Xiaoying	USA		901	(902)	1095	TRIGLOS Daria	BLR
	836	(850)	1146	DAUPLAISE Catherine	CAN	*	902	(905)	1092	WHITAKER Corinna	SCO
	836	(875)	1146	PIMENTEL Tathiane	BRA		903	(907)	1091	ARIAS Emme	ESA
	838	(843)	1145	CAKOL Klara	CRO		903	(921)	1091	UMBACIA Angie	COL
ni	838	(unr)	1145	EGGERTZ Sofia	SWE		905	(903)	1090	MOSTAFAVI Leili	FRA
*	838	(841)	1145	LIU Jiawei	CAN		906	(914)	1089	BOUCLARAS Fatiha	ALG
	841	(844)	1144	SHOIFER Neli	ISR	*	906	(<<)	1089	GAYDEY Oleksandra	UKR
*	842	(845)	1143	EMIRI Filia	GRE	*	908	(907)	1088	CHRABASZCZ Marta	POL
	842	(850)	1143	WANG Crystal	USA		909	(<<)	1087	KUKULKOVA Tatiana	SVK
	844	(845)	1142	REUST Celine	SUI	*	910	(<<)	1086	KOIT Liisi	EST
	844	(847)	1142	SANTOS Ana	POR		910	(<<)	1086	MILOJICA Sanja	BIH
	846	(unr)	1141	BEOVIDES Natalia	CHI	*	910	(<<)	1086	MURADYAN Liana	ARM
	847	(850)	1140	BRODAR Mihaela	CRO	*	910	(917)	1086	TATULLI Francesca	ITA
	847	(841)	1140	LIAW Michelle	CAN	*	914	(915)	1084	BOUTEILLE Ornella	NCL
*	847	(850)	1140	MU Jingyu	CHN		914	(915)	1084	MACIEL Patricia	POR
	847	(829)	1140	SOTO Gabriela	PER	*	916	(917)	1083	MOUMJOGHLIAN Tvin	LIB
*	847	(850)	1140	YEO Jiyeon	KOR		917	(919)	1082	KULAKCEKEN Simay	TUR
*	852	(855)	1139	AGCA Sinem	TUR		917	(903)	1082	SLAZAK Julia	POL
	852	(868)	1139	KIRITCHENKO Anna	FIN	*	919	(920)	1081	TOPLEK Ema	CRO
*	854	(856)	1138	CHAROENMIT Chanya	THA	*	920	(921)	1080	AYESTAS Rebecca	HON
	854	(848)	1138	GALVEZ Eunice	ECU	*	921	(923)	1079	ARCOS Lydia	ESP
*	856	(857)	1137	NI Ying ^^	CAN		921	(923)	1079	SODERLUND Emma	SWE
	857	(858)	1136	FRITSCH-VINSON Verene	FRA		923	(925)	1078	POSTYLIKOVA Taisiia	RUS
	858	(<<)	1135	BIERDRAGER Melanie	NED		924	(926)	1075	FITZGERALD Emelie	SWE

WOMEN'S World Ranking

List No. 05

	925 (927)	1074	VERONIK Nika	SLO		991 (992)	999	MONGE Mariela	ESA
	926 (928)	1073	BOGDANOVA Nadezhda	BLR		992 (unr)	998	BARAVIKOVA Veranika	BLR
	927 (929)	1071	KAZANTSEVA Kristina	RUS	*	993 (995)	997	DIMOVA Mihaela	BUL
*	927 (929)	1071	LULU Anolyn	VAN	*	994 (996)	995	VILLAREAL Jessica	MEX
*	929 (931)	1069	HAN Ohyeon	KOR		995 (998)	992	BELOPOTOCANOVA Katarina	SVK
*	930 (932)	1068	ORTIZ Margarita	ESA		996 (1014)	990	REGAIRA Micaela	PER
	931 (934)	1067	BAGROWSKA Katarzyna	POL		996 (998)	990	SHCHERBATYKH Valeria	RUS
	932 (935)	1065	HENRIQUEZ Ana	ESA	*	998 (<<)	988	MARIJSSE Delfien	BEL
*	933 (936)	1064	CHODRI Aditi	USA	*	998 (1001)	988	WANG Amy	USA
*	933 (932)	1064	DYRKOLBOTN Pia	NOR	*	1000 (1002)	987	AQUINO Marcia	ESA
	935 (936)	1063	DIENDORFER Ines	AUT	*	1000 (1002)	987	EDAMATSU Cassia	BRA
	935 (938)	1063	TAKACS Lili	HUN		1000 (1002)	987	SARITAPIRAK Monapsorn	THA
	935 (938)	1063	TAYLAKOVA Maria	RUS		1003 (1006)	986	BLANQUETO Gladys	MEX
	938 (940)	1059	PARADIZ Gaja	SLO		1003 (1039)	986	GUZMAN Andrea	PER
	939 (945)	1058	KESSACI Katia	ALG	*	1003 (1005)	986	YAO Yumingzi ^^	CAN
	940 (unr)	1056	HLAZUNOVA Darya	BLR		1006 (1007)	983	ERKHEIKKI Anna-Sofia	FIN
	941 (<<)	1054	ZETTERSTROM Helena	SWE		1006 (1008)	983	TOKARCZYK Karolina	POL
	942 (943)	1051	RIVAS Carmen	VEN	*	1008 (1009)	980	DEB Ishana	USA
*	943 (944)	1049	ZHANG Yubo ^^	CAN		1008 (1009)	980	RAHMAN MOHAMMAD POUR SoulmazIRI	
*	944 (945)	1048	GONZALEZ Elodie	SUI	*	1008 (1009)	980	VAN DE VELDE Amber	NED
*	944 (948)	1048	ORTEGA Emilia	MEX	*	1011 (1013)	979	ALANIS Maria	MEX
*	946 (949)	1046	HUANG Chieh	TPE	*	1012 (1016)	975	JUAREZ Dalia	MEX
*	946 (949)	1046	PEROVIC Simona	MNE	*	1013 (1015)	974	GOLIKOVA Marina	EST
*	948 (951)	1045	JANJEVA Amare	KOS		1014 (1017)	972	HALAS Ela	SRB
*	949 (952)	1042	KANBANJONG Apichaya	THA	*	1014 (1017)	972	JIA Yu Ting	CAN
*	949 (957)	1042	LUO Michelle	USA		1014 (1009)	972	SAENZ Mariona	ESP
	949 (952)	1042	MILLBERT Linn	SWE	*	1017 (1020)	969	IVANNIKOVA Anna	RUS
	952 (945)	1041	GIARDI Letizia	SMR	*	1018 (1019)	968	PETROVA Ekaterina	BUL
*	952 (954)	1041	HAN SeungAh	KOR	*	1019 (1021)	967	KNEZOVIC Ivona	BIH
*	952 (954)	1041	HARINGOVA Monika	SVK	*	1020 (1022)	964	MACASKILL Jessica	NZL
	952 (954)	1041	VIGNJEVIC Dragana	SRB		1021 (1023)	963	TISCHLER Valerie	AUT
*	956 (957)	1039	FLAWS Lynda	SCO		1022 (1024)	961	HALL Nicole	WAL
	956 (960)	1039	FOLKESON Stine	NOR	*	1023 (1025)	960	KONGDECH Lakanasiri	THA
	958 (957)	1038	FRONT Erika	SWE		1024 (1027)	959	URIAS Yancy	ESA
*	959 (961)	1037	PILOKSIRI Benjamard	THA		1025 (1028)	958	GOLUBEVA Anastasiia	RUS
	960 (962)	1036	VAN DER KAMP Marieke	NED	*	1026 (1028)	957	FAEHAU Fabianna	NCL
*	961 (964)	1035	CEROVSKA Petronela	SVK	*	1027 (1031)	956	ZHENG Cherry	CAN
*	962 (965)	1032	RESTO Caroline	PUR	*	1028 (1031)	955	ERMATOVA Gulnoza	KAZ
	962 (965)	1032	SCHEMPP Liza	SUI		1028 (1025)	955	NASRI Yasmine	ALG
*	964 (968)	1031	SOKOLOVSKYTE Jolita	LTU		1030 (1033)	954	FEHER Zsofia	HUN
	965 (970)	1027	KANARI Christiana	GRE		1030 (1033)	954	HORVATHOVA Simona	SVK
	965 (970)	1027	LE Thi Hong Loan	ITA		1030 (1033)	954	KALLBERG Christina	SWE
f	965 (1153)	1027	ORIBAMISE Esther	NGR		1033 (1030)	952	MAHAURI Insana ^	LAT
*	965 (970)	1027	SAID Esin	BUL	*	1034 (1037)	950	MEKAMPORN Naja	THA
	965 (973)	1027	TOLLSTOY Alice	SWE	*	1035 (1038)	949	LUO Yanan Vicky	USA
	970 (979)	1026	KHORY Malak	EGY	*	1036 (1041)	947	LUI Wai Sze	HKG
*	971 (974)	1024	EHRISMANN Nurit	SUI	*	1037 (1040)	946	GUTIERREZ Lourdes	MEX
*	972 (976)	1020	MANTHIANG Phacharaphon	THA		1038 (1076)	943	LAGSIR Sannah ^^	ALG
nf	973 (unr)	1019	MORI Paola	PER		1039 (1042)	942	SLEZAKOVA Stanislava	CZE
*	974 (987)	1018	GUO Betty	CAN	*	1039 (1042)	942	STORER Lisa	AUT
*	974 (979)	1018	KOHATSU Martina	BRA		1041 (1033)	941	DONG Sophia ^	NZL
	974 (977)	1018	WEGRZYN Anna	POL	*	1042 (1044)	940	AGUSTIN Caterine	GUA
f	977 (975)	1017	ALI Ruwida	EGY		1042 (1046)	940	LE SCOUR Romane	FRA
	977 (978)	1017	MODERT Michelle	LUX	*	1042 (1044)	940	VORAPAKDEE Janyaporn	THA
	979 (965)	1011	BOUGADOUM Chahinez	ALG		1045 (1048)	935	GODEFROID Anne-Catherine	BEL
*	980 (983)	1009	PATERSON Natalie	NZL		1046 (1047)	933	COOMBS Kayla	AUS
*	981 (985)	1008	POUNGSRI Cathareeya	THA		1046 (1049)	933	NIAGHIHA Zahra	IRI
*	982 (988)	1007	HUANG Laura	USA	*	1048 (1051)	931	DANILOVICH Svetlana	RUS
*	982 (<<)	1007	ZAPATERO Ana	ARG	*	1049 (1052)	930	MAK Julianne	CAN
	984 (988)	1006	MOHAMED Aia	QAT	*	1050 (1054)	929	LYNCH-DAWSON Hannah	IRL
	985 (990)	1003	CECHOVA Katerina	CZE	*	1050 (1054)	929	SIRITHAI Jitsupa	THA
*	985 (986)	1003	KAZLAUSKAITE Kristina	LTU		1052 (<<)	928	RISSANEN Elli	FIN
	987 (991)	1001	BERNER Sara	NOR		1053 (1050)	927	DOVAL Ilka	NOR
*	987 (994)	1001	LIU Jiabao	CAN		1053 (1057)	927	SANTOS Marta	POR
*	989 (992)	1000	EDGHILL Chelsea	GUY	*	1055 (1059)	926	PRAMUANSIN Jarinya	THA
nc	989 (unr)	1000	NAKASHIMA Alexia	BRA	*	1055 (1059)	926	SALPAHDORU Muthumali	SRI

WOMEN'S World Ranking

List No. 05

*	1057	(1061)	924	CHAN Mei Shan	HKG		1122	(1126)	851	GALEANO Andrea	ESA
*	1057	(1061)	924	DIAZ Kircia	DOM	*	1122	(1127)	851	NORALES Mechael	GUA
*	1057	(1061)	924	KIM HaeNa	KOR	*	1125	(1127)	845	TOUMI Fidel	TUN
	1060	(1064)	923	RAHNEMAIHGHIGHI Sahar	IRI	*	1126	(1134)	844	CUEVA Fernanda	PER
	1061	(1057)	922	TAN Sarah	AUS	*	1126	(1129)	844	SRIPRAB Chanida	THA
	1062	(1065)	917	BELINSKY Evgenia	ISR	ni	1128	(unr)	843	OTHMANE Sahar	TUN
	1063	(1066)	916	BALTUSHITE Marharyta	BLR		1129	(1132)	842	ALAVI Zahra	IRI
*	1063	(1066)	916	GASIO Natalia	MEX	*	1129	(1130)	842	TANG An Qi Angeline	MAS
f	1065	(1103)	915	CUBA Valeria	PER		1129	(1096)	842	TOUMI Jiwar	TUN
	1065	(1069)	915	PYSKATA Denisa	CZE		1132	(1133)	839	VAN BOHEEMEN Vera	NED
i	1067	(1054)	913	TOOMPERE Maarika	EST	*	1133	(1135)	836	KOI Julia	FIJ
	1068	(1069)	912	GERTENBACH Angelique	NED		1134	(1151)	832	KAIZOJI Camila	ARG
	1069	(1071)	911	TUREGARD Lisa	LUX		1135	(1136)	831	LINKE Camille-Chloe ^^	SUI
c	1070	(1073)	910	PEAKE Lois	ENG	*	1136	(1137)	830	ZHANG Sheree	CAN
nc	1071	(unr)	908	KAMLIUK Aryna	BLR		1137	(1139)	828	PISCO Alexandra	POR
*	1072	(1080)	905	YANO Daniela	BRA		1138	(1141)	824	HORGEN Maria	NOR
	1073	(1121)	902	LUNDH Anette	SWE		1139	(1144)	820	MEZZAPESA Lorella	LUX
	1073	(1077)	902	MAPHANGA Zodwa	RSA	*	1140	(1146)	817	MACHINENA Dulce	MEX
*	1075	(1077)	901	CARR-HARRIS Natasha	CAN	*	1141	(1148)	816	HALITI Ilirjana	KOS
*	1075	(1077)	901	PARK Jieun	KOR	*	1142	(1149)	814	CAI Margaret	AUS
*	1077	(1080)	900	JEET Shriti	FIJ	*	1142	(1149)	814	PIO Samantha	MEX
*	1078	(1083)	899	MALDONADO Nikole	ECU	ni	1144	(unr)	812	CALDERANO Sofia	BRA
*	1079	(1080)	898	AVAMERI Airi	EST	*	1144	(1146)	812	GOMAA Yasmine	EGY
*	1079	(1083)	898	DIAZ Gabriela	PUR		1146	(1154)	804	JAMALIFAR Fatemeh	IRI
*	1079	(1086)	898	NICHOLS Amy	CAN		1146	(1154)	804	PUCHOVANOVA Nikoleta	SVK
*	1079	(1083)	898	RIVERA Dulce	GUA	*	1148	(1156)	803	SUAREZ Gabriela	ESA
*	1079	(1087)	898	UEDA Hanna	BRA	*	1149	(1158)	799	FERNANDES Joana	POR
*	1084	(1087)	896	SINGH Armindeep	NZL	*	1150	(1156)	798	LOPEZ Julia	ESP
*	1085	(1090)	895	ESPINOSA Maria	MEX	*	1151	(1160)	787	DUANGSEDWONG Chanoknan	THA
	1086	(1090)	894	ANDRADE Raquel	POR		1151	(1160)	787	PENKAVOVA Dagmar	CZE
*	1087	(1093)	893	ALLEJJI Heba	SYR		1153	(1162)	784	VOLOSHINA Anna	RUS
	1088	(1093)	892	FUCHS Sandra	AUT	*	1154	(1163)	781	NUNES Gabriela	POR
*	1088	(1093)	892	RIMKEVICIUTE Jutina	LTU	*	1155	(1164)	780	YOVKOVA Maria	BUL
	1088	(1074)	892	VASTAVUO Viivi-Mari	FIN	*	1156	(1166)	778	LISSOVENKO Anita	EST
	1091	(1096)	890	GAMBORG-NIELSEN Carine	NOR	*	1157	(1167)	774	MOHAMMAD Eman	SYR
	1091	(1098)	890	MIRALAEI Nooshin	IRI		1158	(1164)	773	ERIKSSON Pihla	FIN
*	1093	(1099)	888	BAHRAMI Rezvan	IRI	*	1159	(1168)	770	CARDOZO Luisa	VEN
*	1093	(1099)	888	SYNYTSYNA Iuliia	UKR	*	1160	(1169)	764	SALIHVIC Dzenita	BIH
*	1095	(1107)	887	YEUNG Justina	CAN	*	1161	(1172)	759	YEGHIAZARYAN Svetlana	ARM
	1096	(1092)	886	EGEHOLT Sofie	DEN		1162	(1173)	753	HENNIG Katarzyna	POL
*	1097	(1101)	884	KIM YeBon	KOR		1163	(1169)	752	LAI VAN Lea	NCL
	1097	(1103)	884	MILOVANOVIC Ivana	SRB		1164	(1175)	751	ELSYSY Nada	EGY
*	1097	(1101)	884	VARDANYAN Lusine	ARM		1164	(1176)	751	PETROVOVA Nikita	CZE
	1100	(1103)	883	WGRZYN Katarzyna	POL	*	1166	(1177)	748	STRIOGAITE Saulene	LTU
	1101	(1106)	882	BALOGH Klaudia	HUN	*	1167	(1178)	747	SANCHEZ Estefanny	MEX
	1102	(1066)	880	ILIOVICH Lucia	ARG	*	1168	(1179)	742	SZCZUKA Agata	POL
*	1103	(1108)	877	JOSEPH Brittany	TRI		1169	(1171)	741	LOGHRAIBI Lynda	ALG
	1103	(1109)	877	MORAD Aynour	EGY		1170	(1180)	739	AL-ABRI Noora	QAT
	1105	(1110)	871	IMANOVA Maryam	AZE	*	1171	(1183)	723	KHOJAGORYAN Diana	ARM
	1106	(1111)	870	BLECHOVA Barbora	CZE		1172	(1184)	712	OZKAYA Gul Pembe	TUR
*	1106	(1112)	870	ISERI Jessica	BRA		1173	(1182)	702	BEN CHEIKH Mariem	TUN
	1108	(1112)	869	STACHECKA Paulina	POL	*	1174	(1185)	695	HANSON Reelica	EST
*	1108	(1116)	869	TRUKHANKINA Vasilisa	RUS	ni	1174	(unr)	695	PEREZ Candela	ARG
	1108	(1075)	869	TUSLOVA Veronika	CZE	*	1176	(1186)	694	GUJYTE Greta	LTU
*	1111	(1114)	868	MINUTOLI Claudia	ITA	*	1177	(1187)	687	ONG Samantha	MAS
	1111	(1114)	868	RUDZINSKAITE Jogaile	LTU	*	1178	(1189)	683	PAUL Anais	NCL
nc	1113	(unr)	864	LOAYZA Grecia	PER		1179	(1190)	670	TAHA Eman	EGY
	1113	(1116)	864	WONG Gladys	SIN	c	1180	(1188)	669	MVUNYISWA Sisipho	RSA
*	1115	(1118)	861	LIM Yeseul	KOR	*	1181	(1191)	658	RAZINSKYTE Vanesa	LTU
*	1115	(1118)	861	LIMSILAJEERAKUL Pornpavee	THA		1182	(1194)	644	REHOREK Katerina ^^	SUI
	1117	(1120)	859	HOLMSTEN Ellen	SWE	*	1183	(1191)	641	ERIKSSON Paju	FIN
*	1118	(1124)	856	BELTETON Marilena	GUA	*	1184	(1195)	636	HOCKINGS Paula	AUS
*	1118	(1122)	856	JANJEVA Nehara	KOS	*	1185	(1196)	620	HUNT Kerry	COK
	1120	(1143)	853	SOROUR Yomna	EGY		1186	(1198)	619	HAMED Rowan	EGY
*	1120	(1122)	853	ULLOA Susana	ARG	*	1187	(1198)	618	DAM MORTENSEN Karoline	DEN
	1122	(1125)	851	BERGAND Filippa	SWE		1188	(1197)	613	LUNDSTROM Annika	FIN

WOMEN'S World Ranking

	1189	(1217)	610	LINGEVELDT Caitlin	RSA
*	1190	(1200)	608	RIVERA Ana Paola	PUR
	1191	(1201)	605	WALLOE Sophie	DEN
	1192	(1203)	601	KAMAL Shahd	EGY
*	1193	(1202)	600	GOODSELL Madeline	AUS
nc	1194	(unr)	597	MBAH Onyinyechi	NGR
*	1195	(1204)	587	DUONG Catherine	AUS
	1196	(1205)	585	KOEFOD Nicoline	DEN
*	1197	(1208)	582	HOVANNE Aurelie	NCL
*	1198	(1210)	579	ENG Kristin	NOR
c *	1199	(1209)	577	ELLETAIEF Cheima	TUN
c	1200	(1218)	574	GARCI Ferial	TUN
*	1201	(1211)	572	DANGER Solenn	NCL
*	1201	(1211)	572	SANTINO Vanina	NCL
f	1203	(1227)	566	GARCI Fadwa	TUN
	1204	(1215)	564	BAHAAELDIN Basma	EGY
*	1205	(1215)	561	TAVITA Taupea	PYF
	1206	(1214)	558	NASER Meriem	TUN
nc	1207	(unr)	541	AJALA Funmiola	NGR
nc	1208	(unr)	530	UDOH Ayo	NGR
*	1209	(1220)	529	ABOSETTA Sarah	EGY
i	1210	(1232)	525	JACKSON Vivian	RSA
i	1211	(1224)	523	MTSHOELIBE Thabisile	RSA
	1212	(1222)	520	FARAMARZI Maha	QAT
	1213	(1219)	515	BOUGADOUM Selma	ALG
f	1214	(1221)	508	TAVARES Ruth	ANG
nc	1215	(unr)	507	BAKLOUTI Manel	TUN
f	1216	(1229)	496	ALBINO Isabel	ANG
*	1217	(1226)	487	KLAIUWAN Shattarika	THA
	1218	(1225)	478	MOSSEMBA Thomie	CGO
nc	1219	(unr)	475	BEN SGHAIER Marwa	TUN
ni	1220	(unr)	464	SAMALINHA Maria	ANG
nc	1221	(unr)	462	ODUSANYA Abosede	NGR
*	1222	(1230)	427	HAN HaeSol	KOR
ni	1223	(unr)	425	MERAHI Lina	ALG
i	1224	(1223)	419	SASMAN Jade	RSA
*	1225	(1231)	412	HWANG HyeonJeong	KOR
*	1226	(1234)	353	TAN Vanessa	AUS
	1227	(1233)	350	RATKA Ola	NZL
*	1228	(1235)	292	ZHANG Antonia	AUS
*	1229	(1237)	268	GOBURE Oxyna	NRU
*	1230	(1238)	262	FORSTER Eliza	AUS
*	1231	(1239)	239	GUTTERSBERGER Tanya	FIJ

MEN'S World Ranking

List No. 05

	1 (2)	2964	XU Xin	CHN	66 (68)	2080	LUNDQVIST Jens	SWE
	2 (1)	2929	MA Long	CHN	68 (65)	2075	CHEUNG Yuk	HKG
	3 (4)	2833	WANG Hao	CHN	69 (70)	2070	ACHANTA Sharath Kamal	IND
	4 (3)	2828	ZHANG Jike	CHN	70 (71)	2064	KREANGA Kalinikos	GRE
	5 (<<)	2663	BOLL Timo	GER	70 (76)	2064	LEBESSON Emmanuel	FRA
	6 (<<)	2626	CHUANG Chih-Yuan	TPE	70 (59)	2064	MATSUDAIRA Kenji	JPN
	7 (<<)	2614	OVTCHAROV Dimitrij	GER	73 (72)	2061	GERELL Par	SWE
	8 (<<)	2599	MA Lin	CHN	* 74 (73)	2060	JANG Song Man	PRK
	9 (<<)	2544	WANG Liqin	CHN	* 75 (74)	2057	YOON Jaeyoung	KOR
	10 (<<)	2526	MIZUTANI Jun	JPN	76 (75)	2055	HE Zhiwen	ESP
	11 (<<)	2491	SAMSONOV Vladimir	BLR	77 (76)	2053	LASHIN El-Sayed	EGY
	12 (<<)	2469	HAO Shuai	CHN	78 (79)	2047	GORAK Daniel	POL
	13 (<<)	2445	JOO Saehyuk	KOR	79 (81)	2040	BAI He ^	SVK
	14 (22)	2400	YAN An	CHN	79 (89)	2040	TSUBOI Gustavo	BRA
	15 (<<)	2393	JIANG Tianyi	HKG	79 (83)	2040	WANG Eugene ^	CAN
	16 (14)	2391	GAO Ning	SIN	82 (84)	2036	HABESOHN Daniel	AUT
*	17 (16)	2388	CHEN Qi	CHN	83 (78)	2035	VANG Bora	TUR
	18 (<<)	2376	MAZE Michael	DEN	84 (82)	2033	PRIMORAC Zoran	CRO
	19 (17)	2367	OH Sangeun	KOR	85 (<<)	2032	FEGERL Stefan	AUT
	20 (<<)	2363	RYU Seungmin	KOR	85 (79)	2032	FILUS Ruwen	GER
*	21 (19)	2356	CRISAN Adrian	ROU	* 87 (86)	2029	KIM Junghoon	KOR
	22 (21)	2328	NIWA Koki	JPN	88 (104)	2027	LIVENTSOV Alexey	RUS
	23 (<<)	2295	FREITAS Marcos	POR	89 (87)	2022	BOBOCICA Mihai	ITA
	24 (<<)	2279	LEE Jungwoo	KOR	90 (88)	2021	PERSSON Jorgen	SWE
	25 (26)	2272	STEGER Bastian	GER	91 (90)	2019	ELOI Damien	FRA
	26 (25)	2268	ZHAN Jian ^	SIN	92 (91)	2012	PATTANTYUS Adam	HUN
	27 (30)	2249	MATTENET Adrien	FRA	93 (92)	2010	WANG Zengyi	POL
	28 (27)	2245	CHEN Chien-An	TPE	94 (105)	2008	YOSHIMURA Maharu	JPN
	29 (28)	2240	BAUM Patrick	GER	* 95 (94)	2004	CHTCHETININE Evgueni	BLR
	30 (29)	2238	FANG Bo	CHN	95 (94)	2004	PROKOPCOV Dmitrij	CZE
	31 (36)	2221	TANG Peng	HKG	97 (96)	2002	KARLSSON Kristian	SWE
	32 (33)	2215	TAKAKIWA Taku	JPN	98 (118)	1988	KANG Dongsoo	KOR
	33 (31)	2214	KISHIKAWA Seiya	JPN	98 (97)	1988	LEGOUT Christophe	FRA
	34 (32)	2210	GARDOS Robert	AUT	100 (93)	1985	CHEN Feng ^	SIN
	35 (33)	2196	CHEN Weixing	AUT	101 (<<)	1984	DRINKHALL Paul	ENG
	36 (37)	2191	KIM Minseok	KOR	101 (100)	1984	ZHMUDENKO Yaroslav	UKR
	37 (38)	2189	TAN Ruiwu	CRO	103 (101)	1982	ASSAR Omar	EGY
	38 (39)	2186	FAN Zhendong	CHN	104 (108)	1981	LIN Ju	DOM
	39 (40)	2179	ZHOU Yu	CHN	105 (99)	1977	VLASOV Grigory	RUS
	40 (41)	2175	SUSS Christian	GER	106 (101)	1976	MACHADO Carlos	ESP
	41 (35)	2171	CHAN Kazuhiro	JPN	107 (105)	1975	HUANG Sheng-Sheng	TPE
	41 (42)	2171	GACINA Andrej	CRO	108 (98)	1973	YANG Zi	SIN
*	43 (<<)	2160	SHIBAEV Alexander	RUS	109 (107)	1972	HENZELL William	AUS
	44 (<<)	2157	APOLONIA Tiago	POR	110 (109)	1959	GAUZY Simon	FRA
	45 (48)	2156	KIM Hyok Bong	PRK	111 (<<)	1955	JEVTOVIC Marko	SRB
	46 (52)	2135	MURAMATSU Yuto	JPN	112 (130)	1948	MONTEIRO Thiago	BRA
	47 (48)	2131	JUNG Youngsik	KOR	113 (109)	1945	SAIVE Jean-Michel	BEL
	47 (54)	2131	LEE Sangsu	KOR	114 (<<)	1943	ZWICKL Daniel	HUN
*	49 (51)	2127	SCHLAGER Werner	AUT	115 (112)	1942	KEINATH Thomas	SVK
	50 (52)	2126	LIN Gaoyuan	CHN	116 (<<)	1935	SVENSSON Robert	SWE
	51 (63)	2125	ALAMIYAN Noshad	IRI	* 117 (<<)	1934	KORBEL Petr	CZE
	51 (46)	2125	SKACHKOV Kirill	RUS	118 (115)	1927	MACHI Asuka	JPN
	53 (55)	2121	TOKIC Bojan	SLO	119 (121)	1926	PITCHFORD Liam	ENG
	54 (45)	2120	MATSUMOTO Cazuo	BRA	120 (113)	1925	KUZMIN Fedor	RUS
	55 (57)	2119	GIONIS Panagiotis	GRE	121 (122)	1924	SUCH Bartosz	POL
	56 (60)	2111	JEONG Sangeun	KOR	* 122 (124)	1921	BENTSEN Allan	DEN
	56 (55)	2111	LI Hu ^	SIN	123 (124)	1920	UEDA Jin	JPN
	58 (50)	2105	MATSUDAIRA Kenta	JPN	124 (118)	1919	KASAHARA Hiromitsu	JPN
	59 (47)	2104	SEO Hyundeok	KOR	125 (126)	1917	FEJER-KONNERTH Zoltan	GER
	60 (<<)	2099	SMIRNOV Alexey	RUS	126 (129)	1915	GROTH Jonathan	DEN
	61 (58)	2097	FRANZISKA Patrick	GER	126 (123)	1915	WANG Yang ^^	SVK
	62 (<<)	2093	MONTEIRO Joao	POR	128 (<<)	1914	LAKEEV Vasily	RUS
*	63 (64)	2089	KARAKASEVIC Aleksandar	SRB	129 (130)	1911	LINDNER Adam	HUN
*	64 (66)	2085	YOSHIDA Kaii	JPN	130 (127)	1910	SALIFOU Abdel-Kader	FRA
	65 (69)	2083	CHO Eonrae	KOR	131 (132)	1907	BURGIS Matiss	LAT
*	66 (67)	2080	LEUNG Chu Yan	HKG	131 (132)	1907	SIRUCEK Pavel	CZE

MEN'S World Ranking

List No. 05

	133	(120)	1903	PAYKOV Mikhail	RUS		199	(200)	1757	OLEJNIK Martin	CZE
	134	(135)	1899	DIDUKH Oleksandr	UKR		200	(193)	1754	AGUIRRE Marcelo	PAR
	135	(156)	1896	HUNG Tzu-Hsiang	TPE	*	201	(<<)	1751	ARUNA Quadri	NGR
*	136	(<<)	1895	LIU Song	ARG		201	(<<)	1751	LEE Junsang	KOR
	137	(146)	1893	OYA Hidetoshi	JPN		203	(198)	1749	FLOITZ Philipp	GER
*	137	(<<)	1893	SIMONCIK Josef	CZE	*	204	(203)	1744	SEREDA Peter	SVK
*	139	(<<)	1889	KARUBE Ryusuke	JPN		205	(204)	1741	NORDBERG Hampus	SWE
	140	(134)	1885	WU Chih-Chi	TPE		206	(<<)	1740	TOMICKI Jaroslaw	POL
	141	(138)	1883	YOSHIDA Masaki	JPN	*	207	(204)	1737	PEREIRA Andy	CUB
	142	(140)	1878	JANCARIK Lubomir	CZE		208	(209)	1732	BUROV Viacheslav	RUS
	142	(181)	1878	MORIZONO Masataka	JPN		208	(207)	1732	VOSTES Yannick	BEL
	144	(142)	1876	ROBINOT Quentin	FRA		210	(208)	1731	OSHIMA Yuya	JPN
	145	(143)	1875	BAGGALEY Andrew	ENG		211	(209)	1730	ZUBCIC Tomislav	CRO
	146	(144)	1874	KOSOWSKI Jakub	POL		212	(211)	1729	XU Chenhao	CHN
	147	(145)	1873	KOU Lei	UKR	*	213	(212)	1728	TUGWELL Finn	DEN
	148	(147)	1871	PETE Zolt	SRB		214	(193)	1727	ANGLES Enzo	FRA
*	149	(148)	1870	CIOTI Constantin	ROU		215	(292)	1719	KIM Kyungmin	KOR
	150	(149)	1869	ANTHONY Amalraj	IND		215	(216)	1719	STERNBERG Kasper	DEN
	150	(155)	1869	KIM Donghyun	KOR	*	217	(<<)	1718	LIANG Jingkun	CHN
	152	(141)	1868	KONECNY Tomas	CZE		217	(213)	1718	SZOCs Hunor	ROU
*	153	(149)	1867	LEE Jinkwon	KOR		219	(214)	1716	CARNEROS Alfredo	ESP
	154	(151)	1865	KOLAREK Tomislav	CRO		220	(215)	1715	SILVA Andre	POR
	155	(153)	1863	TOSIC Roko	CRO		221	(240)	1710	SAKAI Asuka	JPN
	156	(152)	1862	SALEH Ahmed	EGY		222	(219)	1709	PAZSY Ferenc	HUN
*	157	(156)	1854	JIN Takuya	JPN		223	(220)	1708	AL-HASAN Ibrahim	KUW
	158	(159)	1852	HIELSCHER Lars	GER	*	223	(220)	1708	ANDRIANOV Sergei	RUS
	159	(154)	1851	FLORE Tristan	FRA		225	(222)	1706	FENG Xiaoquan	AUT
	160	(<<)	1850	PLATONOV Pavel	BLR	*	226	(224)	1704	MARTINEZ Michel	FRA
*	161	(<<)	1843	SHANG Kun	CHN	*	227	(226)	1700	KUBOTA Ryuzo	JPN
	162	(<<)	1842	JAKAB Janos	HUN		227	(222)	1700	TREGLER Tomas	CZE
	163	(158)	1838	MENGEL Steffen	GER		229	(224)	1698	DUDA Benedikt	GER
	164	(<<)	1835	KOSIBA Daniel	HUN		230	(235)	1696	HIGASHI Yuto	JPN
*	164	(<<)	1835	PAPAGEORGIOU Konstantinos	GRE	*	230	(228)	1696	KO Junhyung	KOR
	166	(169)	1834	CHIANG Hung-Chieh	TPE		230	(228)	1696	PERSSON Jon	SWE
	167	(168)	1827	IONESCU Ovidiu	ROU		233	(230)	1695	CANTERO Jesus	ESP
	167	(166)	1827	LORENTZ Romain	FRA		234	(231)	1694	REED Daniel	ENG
	169	(167)	1826	DURAN Marc	ESP		235	(232)	1693	JOVER Sebastien	FRA
	170	(171)	1817	TOKIYOSHI Yuichi	JPN		236	(234)	1691	SZYMANSKI Filip	POL
*	171	(172)	1812	TORIOLA Segun	NGR		237	(235)	1690	KATKOV Ivan	UKR
*	172	(173)	1808	PISTEJ Lubomir	SVK		238	(237)	1688	GAVLAS Antonin	CZE
	173	(176)	1806	FILIMON Andrei	ROU	*	238	(227)	1688	HOYAMA Hugo	BRA
	173	(176)	1806	LASAN Sas	SLO		240	(238)	1687	JUZBASIC Ivan	CRO
	175	(174)	1805	FLORAS Robert	POL	*	240	(238)	1687	LIU Yanan	CHN
	175	(170)	1805	WU Zhikang ^^	SIN	*	242	(240)	1685	HOREJSI Miroslav	CZE
	177	(178)	1804	LEE Chia-Sheng	TPE		243	(233)	1683	LE BRETON Thomas	FRA
	177	(163)	1804	LI Ahmet ^	TUR	*	244	(243)	1680	MIUCHI Kentaro	JPN
	179	(<<)	1803	WONG Chun Ting	HKG	*	245	(<<)	1674	YU Ziyang	CHN
	180	(174)	1801	MA Liang ^	SIN	*	246	(<<)	1673	CHOU Tung-Yu	TPE
	181	(umr)	1790	KIM Taehoon	KOR	*	247	(244)	1671	SAHA Subhajt	IND
	182	(218)	1784	KANG Donghoon	KOR	*	248	(<<)	1665	OIKAWA Mizuki	JPN
	183	(180)	1782	BARDON Michal	SVK		249	(251)	1663	DURANSPAHIC Admir	BIH
*	184	(181)	1781	SHIONO Masato	JPN		249	(251)	1663	PETIOT Jeremy	FRA
	185	(183)	1776	KARLSSON Mattias	SWE	*	251	(253)	1658	LAGOIANIS Konstantinos	GRE
*	185	(183)	1776	KIM Song Nam	PRK		251	(249)	1658	OBESLO Michal	CZE
	185	(183)	1776	NEKHVEDOVICH Vitaly	BLR	*	253	(254)	1657	ERLANDSEN Geir	NOR
	185	(183)	1776	WALTHER Ricardo	GER		254	(249)	1655	RUMGAY Gavin	SCO
	189	(187)	1775	GHOSH Soumyajit	IND		255	(257)	1649	ZIBRAT Jan	SLO
*	190	(188)	1774	ZHENG Peifeng	CHN		256	(257)	1648	CHMIEL Pawel	POL
*	191	(189)	1773	KANG Wi Hun	PRK		257	(256)	1645	DEVOS Robin	BEL
	192	(191)	1772	MADRID Marcos	MEX		258	(260)	1644	GOLOVANOV Stanislav	BUL
	193	(190)	1771	FAZEKAS Peter	HUN	*	259	(<<)	1641	TSE Ka Chun	HKG
	194	(192)	1768	VRABLIK Jiri	CZE		260	(261)	1639	ROBINOT Alexandre	FRA
*	195	(193)	1767	KIM Nam Chol	PRK		261	(255)	1636	CALDERANO Hugo	BRA
	196	(<<)	1766	FAN Shengpeng	CHN	*	262	(264)	1633	KOSTAL Radek	CZE
*	196	(<<)	1766	ZHOU Qihao	CHN		263	(262)	1632	FUJIMOTO Kaito	JPN
	198	(199)	1759	STOYANOV Niagol	ITA		263	(265)	1632	REDJEP Ronald	CRO

MEN'S World Ranking

List No. 05

	265	(266)	1631	KOJIC Frane	CRO	*	331	(334)	1515	REGENTOV Evgeny	RUS
	266	(267)	1628	DANIEL Artur	POL	*	332	(335)	1514	WANG Yi-Tse	TPE
	266	(301)	1628	JANG Woojin	KOR		333	(336)	1513	STORF Martin	AUT
	266	(262)	1628	NUYTINCK Cedric	BEL		334	(337)	1512	CHO Jaejun	KOR
	269	(268)	1627	FERTIKOWSKI Pawel	POL		335	(345)	1510	OLAH Benedek	FIN
	269	(270)	1627	TRAN Tuan Quynh	VIE		335	(338)	1510	RECH DALDOSSO Marco	ITA
	271	(269)	1625	INDEHERBERG Julien	BEL	*	337	(339)	1509	CAMPOS Jorge	CUB
	272	(285)	1620	CHOI Deokhwa	KOR		337	(339)	1509	NADIM Ahmed	EGY
*	273	(270)	1617	PAK Sin Hyok	PRK		339	(342)	1507	HUNG Ka Tak	HKG
	274	(<<)	1609	PRYSHCHEPA Yevhen	UKR		339	(341)	1507	LIAO Cheng-Ting	TPE
	275	(<<)	1608	DESAI Harmmeet	IND		341	(342)	1506	CHODORSKI Piotr	POL
	275	(272)	1608	HACHARD Antoine	FRA		341	(342)	1506	CREPULJA Bojan	SRB
	275	(<<)	1608	OVERSJO Mattias	SWE		341	(347)	1506	SEO Junghwa	KOR
	278	(273)	1605	ALAMIAN Nima	IRI		344	(359)	1505	RAMIREZ Jose Miguel	GUA
	279	(278)	1601	BROSSIER Benjamin	FRA		345	(346)	1499	AHADI Mehran	IRI
	280	(279)	1600	DAVID Petr	CZE		345	(356)	1499	PARK Chan-Hyeok	KOR
*	280	(279)	1600	JENKINS Ryan	WAL		347	(350)	1498	MENGE Gencay	TUR
	282	(277)	1598	GLADYSHEV Mikhail	RUS	*	348	(<<)	1493	LIN Jingjie ^	HKG
	282	(281)	1598	KLEPLIK Jakub	CZE	*	349	(353)	1491	MINO Alberto	ECU
	284	(285)	1597	LAKATOS Tamas	HUN		350	(<<)	1487	ROBLES Alvaro	ESP
	285	(284)	1596	HIRANO Yuki	JPN		351	(348)	1486	CHEW Zhe Yu Clarence	SIN
	286	(281)	1594	DYJAS Jakub	POL	*	352	(354)	1485	ST LOUIS Dexter	TRI
	287	(<<)	1590	DODEAN Adrian	ROU	f	352	(355)	1485	XIN Zhaoxu ^^	SIN
	288	(287)	1587	BOULOUSA Mehdi	FRA		354	(358)	1480	SAKA Suraju	CGO
	289	(290)	1586	GOLEBIEWSKI Mateusz	POL		355	(357)	1478	MIKUTIS Tomas	LTU
	289	(<<)	1586	MUTTI Leonardo	ITA	*	356	(360)	1477	STETSENKO Alexander	RUS
	291	(290)	1584	KOVAC Borna ^^	NED	*	357	(361)	1476	ERIKSSON Robert	SWE
	292	(281)	1583	KNIGHT Darius	ENG		358	(361)	1475	ARVIDSSON Simon	SWE
	293	(<<)	1582	HABESOHN Dominik	AUT		358	(363)	1475	MOHLER Nicola	SUI
	294	(<<)	1579	KRIVOSHEEV Viatcheslav	RUS		360	(364)	1473	MALICKI Szymon	POL
	295	(297)	1578	NOROOZI Afshin	IRI	*	361	(365)	1472	PYSAR Dmytro	UKR
*	295	(297)	1578	VARGA Zoltan	HUN	*	362	(366)	1466	MORITA Yuki (YOB=1984)	JPN
	297	(299)	1574	EL-BEIALI Mohamed	EGY	*	363	(367)	1464	MERCHEZ Cedric	BEL
	298	(294)	1573	SODERLUND Hampus	SWE		364	(368)	1463	BRODD Viktor	SWE
	299	(302)	1569	SAMBE Kohei	JPN	*	365	(369)	1460	HAN Justin ^	AUS
	300	(303)	1568	AKHLAGHPASAND Mohammadreza	IRI	*	365	(372)	1460	YORDANOV Teodor	BUL
	301	(304)	1564	MORIMOTO Kohei	JPN	*	367	(371)	1459	LAI Jiaxin	CHN
	302	(306)	1563	ALTO Gaston	ARG	*	368	(372)	1458	LIU Jianxu	CHN
	302	(350)	1563	KIM Minhyeok	KOR		369	(374)	1456	LEWANDOWSKI Tomasz	POL
	304	(305)	1556	HINDERSSON Mikkel	DEN		370	(375)	1454	RASMUSSEN Morten	DEN
*	305	(306)	1555	HAN Liunisi ^^	SIN	*	370	(375)	1454	ROGIERS Benjamin	BEL
	306	(309)	1554	ROY Soumyadeep	IND	*	372	(379)	1451	LIU Yuheng	CHN
*	307	(306)	1553	TORNKVIST Andreas	SWE	*	373	(380)	1450	OMAR Rashid	UAE
	308	(310)	1544	JEAN Lauric	BEL	*	373	(382)	1450	ZHANG Jieta	CHN
	308	(310)	1544	OUAICHE Stephane	FRA		375	(381)	1448	CHEAIB Dauud	LIB
	308	(310)	1544	YANG Chengbowen	SUI		376	(369)	1447	ISHIY Vitor	BRA
	311	(314)	1543	RONNEBERG Espen	NOR		376	(382)	1447	WEHKING Lennart	GER
	312	(314)	1542	CHIU Chung Hei	HKG	*	378	(384)	1446	LIANG Jishan ^^	USA
	312	(316)	1542	SONG Xu	CHN		379	(396)	1443	THERIAULT Pierre-Luc	CAN
	314	(310)	1538	CHANG Shun-Hung	TPE		380	(385)	1442	PETE Zoltan	SRB
*	315	(318)	1534	HINSE Pierre-Luc	CAN		381	(387)	1441	GERALDO Joao	POR
	316	(317)	1532	KULPA Konrad	POL		382	(378)	1440	TABACHNIK Pablo	ARG
*	316	(321)	1532	WEI Shihao	CHN		383	(386)	1439	CHUMAKOU Dmitry	BLR
	318	(322)	1530	CHEN Hongtao ^	CAN	*	383	(387)	1439	ZHOU Xin	CHN
	318	(326)	1530	OLIVARES Felipe	CHI		385	(412)	1437	HO Andre	CAN
*	320	(323)	1529	HORVAT Mitja	SLO		386	(unr)	1435	LEE Seunghyeok	KOR
	321	(324)	1528	AKERSTROM Fabian	SWE		387	(392)	1433	BAYBULDIN Andrey	RUS
	322	(320)	1527	JOST Frederick	GER		387	(392)	1433	ELSOBKY Mohamed	EGY
i	322	(300)	1527	YU Jiaqing ^^	SIN		387	(392)	1433	SANDELL Mats	SWE
	324	(326)	1522	TRAN Anthony	SWE	*	390	(396)	1429	ONO Tatsuya	JPN
	325	(329)	1521	SHIBATA Naoto	JPN	*	390	(396)	1429	ZAFOSTNIK Gregor	SLO
	326	(331)	1520	ASSAR Khalid	EGY	*	392	(399)	1428	KAUCKY Petr	CZE
	326	(330)	1520	MUSKO Peter	HUN	*	393	(400)	1427	WANG Qing Liang ^^	USA
	328	(325)	1518	ANDERSSON Harald	SWE		394	(401)	1426	PUCAR Tomislav	CRO
	329	(332)	1517	SHETTY Sanil	IND		395	(402)	1425	PANG Xue Jie	SIN
	330	(332)	1516	REITSPIES David	CZE	*	396	(389)	1420	MANHANI Humberto	BRA

MEN'S World Ranking

List No. 05

396 (403)	1420	MORA Yohan	CUB	463 (467)	1351	AL-MOHANNADI Ahmad	QAT
398 (404)	1419	WEN Wei-Chieh	TPE	464 (506)	1350	ONAOAPO Ojo	NGR
399 (404)	1418	GNANASEKARAN Sathiyam	IND	* 465 (471)	1348	KIM Seokho	KOR
399 (406)	1418	NAGY Krisztian	HUN	465 (471)	1348	VANROSSOMME Emilien	BEL
399 (406)	1418	SZARMACH Karol	POL	* 467 (473)	1347	CIOCIU Traian	LUX
399 (406)	1418	TIRSELT Mounaim	MAR	* 468 (475)	1346	BAEK Kwangil	KOR
* 403 (410)	1417	SEYAMA Tatsuo	JPN	* 468 (470)	1346	KUIMOV Philipp	RUS
403 (391)	1417	VAINULA Vallot	EST	468 (473)	1346	MERZLIKIN Taras	RUS
405 (411)	1416	GABROVSKI Petko	BUL	471 (476)	1345	FUCEC Luka	CRO
405 (421)	1416	WANG Timothy	USA	471 (467)	1345	SARGU Mihai	ROU
407 (412)	1413	HEIMBERGER Martin	AUT	473 (477)	1343	GAUZY Paul	FRA
* 408 (414)	1412	TAZOE Kenta	JPN	474 (478)	1342	GONZALEZ Daniel	PUR
409 (425)	1408	SMIRNOV Aleksandr	EST	* 475 (479)	1341	RAKOV Valerij	UKR
410 (418)	1407	PINO Jonathan	VEN	476 (534)	1336	LAI Yi-Yao	TPE
411 (419)	1405	BEN ARI Omri	ISR	477 (483)	1335	HU Jiashun ^^	SUI
* 411 (420)	1405	PULNYI Pavel	RUS	478 (484)	1334	SONBOL Islam	EGY
413 (415)	1404	LANDRIEU Andrea	FRA	* 478 (480)	1334	TOMA Danilo	BRA
414 (421)	1403	SUBOTIC Dragan	SRB	480 (482)	1333	SANTOS Emil	DOM
415 (395)	1402	LEE Chun-Lin	TPE	* 481 (485)	1332	SONDELL Johan	SWE
416 (425)	1401	RODE Marc	GER	* 482 (488)	1329	CHEN Haowen	CHN
416 (406)	1401	SHOUMAN Mohamed	EGY	483 (487)	1328	SZUDI Adam	HUN
418 (427)	1400	LOTFOLLAH NASABI Midya	IRI	* 484 (488)	1327	BARBOLIN Illia	BLR
* 419 (429)	1399	CHEN Peng	CHN	484 (490)	1327	HUANG Chien-Tu	TPE
420 (421)	1397	DIEZ Endika	ESP	* 486 (492)	1325	LI Xiang	CHN
420 (428)	1397	LIM Jonghoon	KOR	* 486 (491)	1325	MUTYGULLIN Ramil	RUS
422 (421)	1396	AKKUZU Can	FRA	486 (480)	1325	ZATOWKA Patryk	POL
422 (429)	1396	BRATCHENKO Sergey	RUS	* 489 (494)	1324	ARINOBU Taimu	JPN
424 (432)	1393	IDOWU Saheed	CGO	490 (493)	1323	GROZDANOV Gordan	BUL
424 (433)	1393	LI Hon Ming	HKG	490 (498)	1323	ZELJKO Filip	CRO
426 (417)	1392	JOUTI Eric	BRA	* 492 (494)	1322	WANG Chuqin	CHN
* 427 (434)	1391	JUZBASIC Neven	CRO	* 492 (494)	1322	WANG LI Chung-Yi	TPE
428 (435)	1388	SITAK Andriy	UKR	494 (497)	1321	KUMAR Jubin	IND
429 (486)	1384	KANG Minho	KOR	495 (519)	1318	UDRA Alfredas	LTU
* 430 (431)	1383	MANCINI Eric	BRA	496 (500)	1317	BENES Michal	CZE
431 (436)	1379	BEDAIR Omar	EGY	496 (499)	1317	HUGH Adam	USA
* 431 (438)	1379	GUSEV Arseniy	RUS	496 (unr)	1317	JUCHNA Gintautas	LTU
433 (439)	1377	MALMIRI Vahed	IRI	499 (502)	1314	SZITA Marton	HUN
* 434 (440)	1376	MICHELY Gilles	LUX	* 499 (503)	1314	TRAN Kiet	AUS
* 435 (442)	1374	GADIEV Vildan	RUS	* 501 (514)	1313	SHAMIN Ilya	RUS
* 435 (442)	1374	SEEMILLER Danny	USA	502 (545)	1311	WALKER Samuel	ENG
437 (467)	1372	CHO Seungmin	KOR	503 (506)	1310	LASHIN Aly	EGY
437 (444)	1372	LAM Siu Hang	HKG	* 503 (506)	1310	LEVIS Bruno	CHI
439 (445)	1371	BERNER Eric	NOR	503 (506)	1310	SARBAKHSIAN Shahram	IRI
* 439 (445)	1371	ELIZAROV Sergey	RUS	506 (510)	1307	AGBETOGLO Mawussi	TOG
* 439 (445)	1371	YANG Yi-Hsuan	TPE	* 506 (510)	1307	DORAN Christopher	ENG
442 (448)	1369	NAVAS Marco	VEN	* 508 (512)	1306	KUCHUK Aleksandr	BLR
443 (450)	1366	BAJGER Ondrej	CZE	* 509 (504)	1305	RI Kwang Won	PRK
* 443 (450)	1366	LEE Seungjun	KOR	510 (515)	1303	KHOURTA Idir	ALG
445 (453)	1365	MOLNAR Csaba	HUN	* 510 (515)	1303	PARK Shinwoo	KOR
446 (454)	1364	PLATTNER Dominique	AUT	* 510 (515)	1303	YEH Chih-Wei	TPE
447 (450)	1363	SIMOVIC Miho	CRO	513 (520)	1302	BACIOCCHI Alessandro	ITA
448 (449)	1362	CASSIN Alexandre	FRA	514 (521)	1301	MATSUDA Naoki	JPN
* 448 (455)	1362	CHEON Minhyuck	KOR	515 (522)	1298	CHEN Diogo	POR
450 (462)	1361	FRANK Robert	AUS	515 (522)	1298	LAU Tobias	DEN
* 450 (456)	1361	LIU Dingshuo	CHN	517 (524)	1297	ECSEKI Nandor	HUN
450 (437)	1361	LU Po-Hsien	TPE	517 (515)	1297	LAMBIET Florent	BEL
* 453 (457)	1360	TSUBOI Yuma	JPN	517 (546)	1297	TENTI Fermin	ARG
454 (458)	1359	BIERNY Ludovic	BEL	517 (532)	1297	THERIEN Xavier	CAN
454 (458)	1359	ECHAVARRIA Alexander	COL	521 (525)	1294	ORT Kilian	GER
454 (458)	1359	KOBES Kristian	SVK	521 (530)	1294	SEIBERT Jakob	CZE
457 (441)	1358	RYUZAKI Tonin	JPN	523 (525)	1293	TEMPERLEY Diego	ARG
* 458 (465)	1355	PARK Jeongwoo	KOR	523 (525)	1293	YANG Heng-Wei	TPE
* 458 (463)	1355	ZHU Cheng	CHN	* 525 (<<)	1292	HSU Chia-Liang	TPE
460 (461)	1354	BERRIOS Hector	PUR	* 525 (530)	1292	OLONOV Alexander	RUS
* 460 (464)	1354	KIM Jangho	KOR	527 (525)	1291	ZHANG Yahao	USA
* 462 (465)	1353	HUZJAK Josip	CRO	* 528 (536)	1288	LEE Seungyeop	KOR

MEN'S World Ranking

List No. 05

	529	(538)	1285	CIPIN Filip	CRO		595	(602)	1209	EVANS Gavin	ENG
	530	(unr)	1284	KIM Minho	KOR	*	595	(602)	1209	SHAO Yu	USA
*	530	(533)	1284	OTSUKA Masahiro	JPN	*	597	(604)	1205	MIZUTANI Yoshiki	JPN
	530	(538)	1284	WANG Tai-Wei	TPE		598	(606)	1202	TER LUUN Casper	NED
f	533	(512)	1283	HWANG Minha	KOR	*	599	(606)	1200	YANG Tzu-Yi	TPE
	534	(540)	1282	AHMADIFAR Aref	IRI		600	(608)	1198	DABROWSKI Michal	POL
	534	(540)	1282	BOUDJADJA Mohamed Sofiene	ALG		600	(608)	1198	NADOLSKI Lukasz	POL
	534	(540)	1282	MUJICA Henry	VEN	*	602	(608)	1197	TIAN Yuan	CHN
	537	(543)	1281	LUPULESKU Lorencio	SRB		603	(612)	1196	IZUMO Takuto	JPN
	538	(534)	1279	BUHIJJI Hamad	BRN	*	604	(612)	1195	LEE Dongjin	KOR
	538	(537)	1279	KAKITSUKA Masato	JPN		605	(614)	1194	LOSO Sebastian	SWE
	540	(544)	1275	LEITGEB Stefan	AUT		606	(615)	1193	BOURIAH Larbi	ALG
*	541	(549)	1273	KIM Sangsoo	KOR	*	606	(616)	1193	ROCHA Paulo	BRA
	542	(547)	1271	SCHREINER Florian	GER	*	608	(616)	1191	ZHIDKOV Ilya	RUS
*	543	(552)	1268	BACHSTATTER Joachim	SWE		609	(620)	1189	GROVER Sudhanshu	IND
*	543	(551)	1268	LIN Hsuan-Ming	TPE		609	(621)	1189	STULII Maksim	RUS
	545	(554)	1265	SOBHY Ashraf	EGY		611	(<<)	1188	OGATA Ryotaro	JPN
*	546	(557)	1264	DAIRON Arnaud	FRA		611	(618)	1188	PETUKHOV Andrey	RUS
	547	(566)	1263	BARABANOV Kiryl	BLR		613	(661)	1187	SUN Chia-Hung	TPE
*	547	(556)	1263	KIM Sungwon	KOR		614	(622)	1185	DAN Daniel	ROU
	549	(558)	1261	TANVIRIYAVECHAKUL Padasak	THA		614	(605)	1185	SARAGOVI Pablo	ARG
	549	(558)	1261	TANVIRIYAVECHAKUL Padasak	THA		616	(623)	1184	BLAS Bryan	PER
	551	(560)	1260	MCBEATH David	ENG	*	617	(624)	1183	FRANZEN Alexander	SWE
*	552	(561)	1259	ALHAJJAI Waled Nasser	QAT		617	(625)	1183	POWELL David	AUS
	552	(561)	1259	MAKRAS Eleftherios	GRE		619	(625)	1182	AHLANDER-J Carl	SWE
	554	(555)	1258	QIU Dang	GER		619	(625)	1182	MAHMOUD Abdul-Rahman	EGY
	555	(563)	1257	RAMOS Julian	COL	*	621	(628)	1180	HAN YuBeen	KOR
*	556	(565)	1256	MORICZ Mate	HUN	*	622	(628)	1179	CHOI Sungmin	KOR
	557	(566)	1254	DONADO Josue	ESA	*	623	(630)	1176	DAVID Paul	GUY
*	557	(566)	1254	XUE Fei	CHN		624	(672)	1175	HMAM Adem	TUN
*	559	(569)	1252	XIAO Phillip	NZL		624	(632)	1175	ZAGHLOUL Mahmoud	EGY
	560	(570)	1250	OMRANI Seyed Pourya	IRI		626	(633)	1172	VLACUSKA Patrik	SVK
	560	(570)	1250	SAHA Sourav	IND		627	(635)	1171	HEDLUND Jesper	SWE
*	562	(572)	1249	CHI Yuanrui	CHN		627	(638)	1171	MOYA Manuel	CHI
	562	(572)	1249	HSU Chia-Yen	TPE		629	(639)	1170	ALMUGHANNE Fahed	QAT
*	562	(572)	1249	PU Junwei	CHN	*	629	(636)	1170	SHI Tao	CHN
*	562	(572)	1249	SCHAFFER Daniel	HUN	*	629	(639)	1170	TU Chi-Hsiung	TPE
	566	(563)	1248	GILABERT Rodrigo	ARG	*	629	(636)	1170	YU Shibo	CHN
	567	(553)	1247	DAHER Juan	ARG		633	(667)	1166	CONTRERAS Matias	CHI
*	567	(576)	1247	FOREITOROV Dmitry	BLR	*	634	(641)	1165	KIM Yongho	KOR
	567	(633)	1247	MAK King Ho	HKG		635	(642)	1164	TAHERKHANI Hamidreza	IRI
*	570	(579)	1243	LIANG Yonghui	CHN		636	(645)	1163	DOROCINSKI Jakob	POL
	571	(577)	1242	QIU Liang	GER		636	(642)	1163	ISMAILOV Sadi	RUS
	572	(578)	1241	GOMMERS Rajko	NED	*	636	(645)	1163	SOUZA Gustavo	BRA
*	572	(580)	1241	KARAS David	SVK	*	639	(647)	1162	YAN Minghui	CHN
*	574	(581)	1239	HUNG Daryl	HKG	*	640	(647)	1161	ABOU-ELMAGD Karim	EGY
*	575	(582)	1236	FU En-Ti	TPE		640	(649)	1161	TROKA Mateusz	POL
	576	(583)	1234	ACOSTA Juan	PER	*	640	(649)	1161	YU Cheng-Feng	TPE
*	577	(584)	1233	ROPOSA Bojan	SLO	*	643	(651)	1160	BELIKOV Maxim	RUS
	578	(585)	1231	HOWIESON Craig	SCO	*	644	(652)	1156	LI Hao	CHN
	578	(585)	1231	MATSUSHITA Taisei	JPN		644	(652)	1156	TCYBIN Andrei	RUS
*	578	(585)	1231	SEHIC Adnan	BIH	*	646	(654)	1155	VNUKOV Artem	RUS
	581	(597)	1229	AFANADOR Brian	PUR	*	647	(655)	1150	SAUDEMONT Robin	BEL
f	582	(642)	1228	AN JaeHyeon	KOR	*	648	(657)	1149	AVRAMOV Itamar	ISR
	582	(590)	1228	NOVOTA Samuel	SVK	*	649	(658)	1147	BUTLER Jim	USA
*	584	(591)	1227	GRIGOREV Artur	RUS		649	(658)	1147	KHATIYON Mohsen	IRI
	585	(592)	1226	PETKOV Marko	SRB	*	649	(658)	1147	YANG Xinyang	CHN
*	586	(593)	1225	NI Igor	MDA	*	652	(663)	1145	NOH Jemin	KOR
	587	(594)	1224	COGILL Theo	RSA		652	(unr)	1145	SAVELYEV Alexander	RUS
	588	(585)	1221	CALVO Alejandro	ESP		654	(unr)	1143	HACI Halil	TUR
*	588	(596)	1221	FREDRIKSSON Viktor	SWE		654	(661)	1143	TROMER Laurens	NED
*	590	(598)	1219	GERASSIMENKO Kirill	KAZ		656	(665)	1142	GATICA Hector	GUA
*	591	(599)	1216	PALATINUS Martin	HUN	*	656	(665)	1142	PITAKGULSIRI Suchat	THA
	591	(595)	1216	RUIZ Romain	FRA	*	658	(667)	1141	SHCHETINKIN Kirill	RUS
*	593	(600)	1213	LANDERS Michael	USA	*	659	(667)	1140	CORDUE John	NZL
*	594	(601)	1211	DE VRIES Boris	NED	ni	659	(unr)	1140	GUDILKIN Igor	UKR

MEN'S World Ranking

List No. 05

	659	(667)	1140	LUGINER Christian	AUT	*	727	(736)	1064	POON Sheung Hei	HKG
	662	(664)	1137	KIM Daewoo	KOR	*	728	(737)	1063	HASSAN Rashed	UAE
	663	(671)	1134	REZETKA Roman	SVK	*	728	(737)	1063	LIN Yi-Sien	NZL
*	664	(674)	1133	BACA Emir	ARG	*	730	(739)	1062	PANDIT Sharad	AUS
*	665	(678)	1131	HAACK Sebastian	DEN		731	(740)	1061	CALVO Allan	CRC
	666	(679)	1130	NAD NEMEDI Valentin	SRB		731	(791)	1061	NIELSEN Claus	DEN
*	666	(674)	1130	TAUBER Michael	ISR		731	(740)	1061	VALUCH Alexander	SVK
*	668	(681)	1128	CHEN Meng-Tien	TPE		734	(742)	1059	SPELBUS Alin	ROU
*	668	(681)	1128	LI Zhuoming	CHN	*	735	(743)	1058	KANABE Szilard	ROU
	670	(679)	1127	KANTOLA Roope	FIN		736	(745)	1057	JENSEN Ruben	DEN
*	670	(673)	1127	POUNGSRI Max	THA		737	(746)	1055	MANTUROV Sergei	EST
	670	(656)	1127	SOINE Samuli	FIN		737	(733)	1055	MIYAZAKI Tomo	JPN
	673	(683)	1126	ALLEGRO Martin	BEL		739	(748)	1054	SERETTI Damiano	ITA
	673	(674)	1126	BERGLUND Simon	SWE		740	(750)	1053	LEE Jangmok	KOR
*	675	(685)	1123	YAN Xin Chris	AUS		741	(749)	1052	STRUGAREVIC Nikola	SRB
	676	(686)	1121	OOSTWOUDER Ewout	NED		741	(704)	1052	ZAULI Isaac	BRA
	677	(687)	1120	COSTA Jorge	POR		743	(751)	1050	VASANTH PHILIPS Nitin	IND
	678	(690)	1119	KALLBERG Anton	SWE		744	(752)	1049	ISMAYILOV Farhad	AZE
	678	(688)	1119	SHVETC Kirill	RUS	*	744	(752)	1049	MADSEN Emil	DEN
	680	(689)	1118	MIRALMASI Amin	IRI		744	(752)	1049	SAEED Saiwan	IRQ
	681	(691)	1116	NTANDOU Stellin	CGO		744	(unr)	1049	VILKAS Matas	LTU
	682	(693)	1113	WEBER Lionel	SUI		748	(765)	1048	LIBENE Toomas	EST
	683	(694)	1109	GORMAN Viktor	SWE		748	(755)	1048	SUKIC Patrik	SLO
	684	(696)	1108	KRASTEV Petyo	BUL		750	(756)	1047	MARTINEZ Guillermo	ESP
	685	(698)	1107	EL-SHAARAWY Karim	EGY	*	750	(760)	1047	OH Jeongwon	KOR
	686	(697)	1106	JENKINS Stephen	WAL	*	750	(756)	1047	SENS Laurent	NCL
*	686	(694)	1106	TSENG Yi-Cheng	TPE	*	753	(760)	1046	AGUIDA Abderrafiq	MAR
*	688	(699)	1102	ALBAHAR Mohamed	UAE		754	(756)	1045	HAGERAATS Koen	NED
	689	(700)	1101	HU Heming	AUS	*	754	(764)	1045	PARK Ganghyeon	KOR
*	690	(701)	1098	GUAN Zeyu	CHN		754	(766)	1045	PERSOLJA Ludvik	SLO
	690	(701)	1098	MOSCOSO Heber	GUA		757	(756)	1044	SONBOL Shady	EGY
	692	(unr)	1096	CEDERLOF Martin	SWE		758	(767)	1042	KONSTANTINOPOULOS Konstantinos	GRE
	693	(743)	1095	HAGBERG Johan	SWE	*	759	(769)	1041	CILLIS Javier	ARG
	694	(703)	1094	LINDHOLM Eskil	NOR	*	759	(769)	1041	SKRABAN Dominik	SLO
*	695	(705)	1093	CHOI Minyeong	KOR		761	(771)	1040	AL-ENEZY Mansour	KUW
	695	(705)	1093	PFEFFER Simon	AUT		762	(767)	1039	GIVONE Nolan	FRA
	695	(705)	1093	WIECEK Adrian	POL		762	(772)	1039	LUJAN Pedro	MEX
*	698	(708)	1092	GAO Yan Jun	USA	*	764	(774)	1038	HUNG Wah Tak	HKG
	699	(unr)	1091	MARTINKUS Valdas	LTU		764	(774)	1038	SOTO Kevin	GUA
*	699	(710)	1091	SORBALO Vladislav	MDA		766	(776)	1037	FARGHADANI Mohammad	IRI
	701	(746)	1087	LI Peter	USA		766	(776)	1037	MALEKI Shayan	IRI
	702	(710)	1086	KIM Doyub	KOR	*	768	(778)	1036	KIM Moogang	KOR
*	703	(712)	1085	BOROVIK Alexandr	RUS		769	(779)	1035	CAMERON Niall	SCO
	703	(708)	1085	PERAL Xavier	ESP		769	(779)	1035	CHEN Alexander	AUT
*	703	(717)	1085	SANTIWATTANATARM Tanapol	THA		769	(779)	1035	DOMEIKA Arnoldas	LTU
	703	(713)	1085	YADAV Abhishek	IND	*	769	(783)	1035	KANG Jihoon	KOR
	707	(713)	1084	MOLARAJABI Alireza	IRI	*	769	(779)	1035	PERNHULT Mattias	SWE
*	707	(713)	1084	ZELJKO Ivan	CRO		774	(784)	1031	KHATCHANOV Martin	NED
	709	(875)	1082	AFANASENKA Siarhei	BLR		775	(785)	1029	LINGEVELDT Kurt	RSA
	709	(718)	1082	PRADELLE Quentin	FRA	*	776	(786)	1027	YIN Jing Yuan	SIN
*	711	(720)	1077	TATULLI Frizzo	ITA		777	(788)	1026	PAVLIK Tibor	CZE
	712	(721)	1076	LI Grant	USA		778	(786)	1025	CHAPLYGIN Maxim	RUS
	712	(719)	1076	MAJOROS Bence	HUN		778	(789)	1025	NATIVEL Jonathan	MAD
	712	(721)	1076	UEZU Koji	JPN	*	780	(789)	1024	ALVAREZ Moises	ESP
	715	(723)	1075	URIBE Salvador	MEX		780	(794)	1024	GURA Paulius	LTU
*	716	(724)	1074	GOLAVSEK Jaka	SLO	*	782	(760)	1023	CHA Byeongiun	KOR
	717	(713)	1073	GOMEZ Gustavo	CHI	*	783	(792)	1022	KOSTELNIK Lukas	SVK
*	717	(725)	1073	YAN Sheng	CHN	*	783	(792)	1022	ZHAO Shuyin	CHN
	719	(727)	1071	WASYLKOWSKI Nestor	POL	*	785	(795)	1020	ALEXANDRE Josh	NZL
	720	(725)	1070	JOHANSSON Henrik	SWE	*	785	(797)	1020	WEN Yi-Cheng	TPE
	720	(727)	1070	MIHAILOVIC Boris	SRB	*	787	(797)	1019	BAVARESCO Yuri	BRA
*	722	(730)	1068	SEO Jungwon	KOR	*	787	(797)	1019	VILCHEZ Miguel	ESP
	723	(732)	1067	RONNEBERG Lars	NOR	*	789	(800)	1018	LEE Yat Hin	HKG
	723	(727)	1067	SEYFRIED Joe	FRA		790	(unr)	1014	CHAIEB Oussama	TUN
	725	(735)	1065	AL-BAHRANI Husain	KUW		790	(800)	1014	PIETRI Richard	PUR
	725	(730)	1065	PINTEA James	CAN		790	(803)	1014	SHAJIRATI Shaker	IRI

MEN'S World Ranking

List No. 05

f	793	(630)	1013	KURLYCHYK Siarhei	BLR	859	(842)	973	MOHAMED Abdel-Rahman	EGY	
*	793	(804)	1013	WANG Jung-Ping	TPE	860	(829)	970	GHALLAB Aly	EGY	
*	795	(805)	1011	MAJAK Marian	SVK	860	(864)	970	YARASHENKA Vadim	BLR	
	795	(800)	1011	POLANSKY Tomas	CZE	*	862	(863)	969	TAPIA Rodrigo	ECU
	797	(805)	1010	DOHERTY Sean	SCO		863	(865)	968	PETER Ingemar	SVK
*	798	(808)	1009	MUCHA Matej	SVK		864	(867)	967	KODJABASHEV Denislav	BUL
	799	(918)	1008	SOPELEU Anton	BLR		864	(867)	967	RIGAULT Lucas	FRA
	800	(811)	1006	JIN Kyoka	JPN	*	864	(865)	967	TAN Kiat Yi Kerry	SIN
	800	(820)	1006	LIND Anders	DEN	*	867	(869)	966	BABASSOV Asset	KAZ
*	800	(811)	1006	TRAN Xuyen	AUS		867	(904)	966	WEERASINGHE Helshan	ENG
	803	(805)	1005	CHERNOV Konstantin	RUS		869	(871)	965	COSTEA Adrian	ROU
	803	(813)	1005	MURPHY John	IRL	*	870	(873)	964	FENG Yijun ^^	USA
	805	(808)	1004	LI Julio	PER		871	(874)	963	ALAWLAQI Ahmed	QAT
*	806	(815)	1003	HSU Cheng-Chieh	TPE	c	872	(880)	961	RAAFAT Galal	EGY
	807	(817)	1002	BOUJARIAN Mohammad	IRI		873	(876)	960	ZAUS Marius	GER
	807	(817)	1002	KOLESAU Andrei	BLR		874	(878)	958	ERIKSSON Anders	SWE
*	807	(815)	1002	STANOJKOVSKI Kristijan	MKD	*	875	(880)	957	KUNPRASERT Peerapol	THA
	807	(918)	1002	TENNILA Otto	FIN		876	(877)	956	BUCYS Marius	LTU
	811	(795)	1001	SAVELEV Sergei	RUS	*	877	(882)	955	ROCHE-NADON Arnaud	CAN
*	812	(821)	999	ALMEIDA Raphael	BRA		878	(-<<)	954	KHRIPUNENKO Pavel	RUS
	812	(819)	999	KUPERBERG Elad	ISR	*	879	(883)	953	DOMEIKYA Tonetas	LTU
	814	(-<<)	997	ALAA Bassel	EGY	*	879	(883)	953	KOTLYAROV Nikita	RUS
	814	(849)	997	KOHATSU Massao	BRA		881	(unr)	952	REINHOLDS Arturs	LAT
*	814	(822)	997	YAMADA Jeff	BRA		881	(885)	952	VILLEGAS Joaquin	COL
*	817	(823)	996	LI Tingrui	CHN		883	(886)	951	MAJSTOROVIC Ilija	SRB
	818	(825)	995	AL-DHUBHANI Muneer	YEM		884	(906)	949	DOWNING George	ENG
	819	(823)	993	EFROYKIN Maxim	RUS	*	885	(890)	947	ALICIC Armin	BIH
	820	(829)	992	NILSSON Kim	SWE		885	(890)	947	REUSEAU Nicolas	FRA
	820	(827)	992	WITKOWSKI Antoni	POL		887	(-<<)	945	AL-HASAN Salem	KUW
	822	(829)	991	HERRA Steve	CRC	*	887	(892)	945	SAITO Ryoma	JPN
ni	822	(unr)	991	KACERAUSKAS Audrius	LTU	*	889	(893)	944	HUANG Lien-Chung	TPE
	822	(826)	991	MAGDY Shady	EGY		889	(893)	944	TURCEK Peter	SVK
*	822	(829)	991	WANG Zexuan ^	CAN	*	891	(893)	943	SANTOS Nicolas	BRA
	826	(834)	990	LORENZOTTI Gonzalo	URU	*	891	(896)	943	WOSKOWICZ Marcin	POL
	826	(834)	990	MATSUYAMA Yuki	JPN		893	(898)	942	KIZUKURI Yuto	JPN
	826	(869)	990	UDRA Manfredas	LTU		894	(896)	941	SEMENOV Andrey	RUS
	829	(927)	989	OLAVE Alfonso	CHI	*	895	(889)	940	MEDINA Jan	VEN
	829	(836)	989	PAVOLKA Michal	SVK		896	(898)	939	ROUINTANESFAHANI Mohammadali	IRI
	829	(827)	989	RASMUSSEN Tobias	DEN		896	(898)	939	SABIAN Gergely	HUN
*	832	(842)	988	DI SALVO Adriel	ARG		898	(901)	938	KHEROUF Sami	ALG
	832	(837)	988	GUPTA Utkarsh	IND		898	(901)	938	MASSARELLI Maurizio	ITA
*	832	(837)	988	LETTS Greg	AUS		900	(904)	937	ALTAMIRANDA Justo	PAN
	832	(837)	988	LEVENKO Andreas	AUT		900	(901)	937	KOTOWSKI Tomasz	POL
	832	(unr)	988	MAGUIRE Gavin	IRL		902	(939)	936	RODRIGUEZ Diego	PER
	832	(837)	988	SWARTENBROUCKX Gaetan	BEL		903	(912)	933	MALEK Tomas	CZE
*	832	(837)	988	TRUMMLER Linus	SUI		903	(908)	933	PAPADAKIS Ioannis	GRE
*	839	(844)	986	GHOSH Anirban	IND	*	903	(908)	933	TAY Jit Kiat	SIN
	839	(829)	986	HOLMBERG Andreas	SWE		903	(908)	933	ZAKHAROV Dmitry	RUS
	839	(844)	986	KONSTANTINOPOULOS Giorgos	GRE	*	907	(-<<)	931	AFONSO Hiago	BRA
*	839	(844)	986	QI Zhili	CHN	nf	907	(unr)	931	ROOSE Pontus	SWE
	843	(847)	985	DYKOWSKI Mateusz	POL		907	(913)	931	SHAMRUK Gleb	BLR
	844	(849)	984	CATALAN Milton	GUA	*	910	(914)	927	CHANG Chun-Min	TPE
*	844	(849)	984	HUNG Edwin Chun Hin	HKG	*	911	(915)	925	KULPEKSHA Siarhei	BLR
	844	(847)	984	STENER Jonas	SWE		912	(916)	922	ANDREEV Yavor	BUL
*	847	(854)	982	FOO Dunley	MAS		912	(908)	922	KHANIN Aliaksandr	BLR
	848	(855)	980	MOLINA Mario	NCA		912	(926)	922	ROMAN Sebastian	CHI
*	849	(-<<)	978	LUPERDI Juan	PER		915	(943)	921	NABIL Mahmoud	EGY
*	849	(857)	978	TOWNSEND Wade	AUS	ni	916	(unr)	918	AUGUSTSSON Mattias	SWE
	849	(857)	978	VORCNIK David	AUT	*	916	(917)	918	DE CLERCQ Robin	BEL
	852	(859)	977	CAPELLO Benjy	FRA	nc	918	(unr)	916	ARESKOUG Rasmus	SWE
	852	(849)	977	WU Kevin	NZL	ni	919	(unr)	914	BANNIKOV Juri	UKR
	854	(860)	975	RAGNI Lorenzo ^	SMR		919	(922)	914	JORGIC Darko	SLO
*	854	(861)	975	TOWNSEND Kane	AUS	*	921	(924)	913	LIAO Hongran	CHN
*	856	(862)	974	FOFF Lukas	CZE	*	922	(925)	912	TIMIN Egor	RUS
	856	(888)	974	LEBEDA Michal	CZE		923	(927)	910	SCHMID Elia	SUI
	856	(855)	974	SKUCAS Matas	LTU	*	924	(921)	909	BAYONA Lucas	ARG

MEN'S World Ranking

List No. 05

*	924	(927)	909	JEZO Martin	SVK	991	(992)	854	KOZUL Deni	SLO	
	924	(920)	909	NAVICKAS Ignas	LTU	991	(992)	854	MORAIS Igor	ENG	
	927	(930)	907	SAIDOV Inom	TJK	991	(990)	854	SCHEJA Dominik	GER	
*	927	(930)	907	TANG Hoi Yen	HKG	994	(997)	853	SALEH Mohamed	BRN	
	929	(932)	906	GALVEZ Samuel	DOM	994	(997)	853	SERDAROGLU David	AUT	
	929	(932)	906	MARELJA Franjo	CRO	*	996	(994)	852	GONCALVES Jose	POR
*	931	(932)	905	TORANZOS Alejandro	PAR		997	(996)	850	TISO Martin	MON
*	932	(938)	904	CUEVAS Ivan	ESP	*	998	(997)	849	LI Tianhao	CHN
	932	(<<)	904	GRAY Lewis	ENG	*	999	(1000)	847	OLIVEIRA Luan	BRA
	932	(936)	904	MULLNER Thomas	AUT	*	1000	(1001)	845	TAYAL Ayush	IND
*	935	(939)	902	KIM JieRyang	KOR		1001	(1003)	844	PICCOLIN Jordy	ITA
*	935	(922)	902	YOKOTA Gustavo	BRA		1002	(1003)	843	SEQUEIRA Roger	NCA
*	935	(939)	902	ZELJKO Dominik	CRO		1003	(1006)	842	DUGIEL Adrian	POL
	938	(942)	900	SANKOWSKI Marcin	POL		1003	(<<)	842	DZIKOWSKI Mateusz	POL
*	939	(945)	895	LI Hangyu ^^	USA	*	1005	(1008)	840	SANDBERG Vegard	NOR
	939	(963)	895	LUSIN Aleksandr	EST		1005	(1007)	840	TEPLITZKY Diego	ARG
	939	(945)	895	RANEFUR Elias	SWE		1007	(1002)	839	YARUSHIN Nikita	RUS
*	942	(945)	894	FIODARAU Andrei	BLR		1008	(1009)	838	BENITO Javier	ESP
	943	(1029)	892	AL-SANADI Jassim	QAT	i	1008	(970)	838	FATHY Mahmoud	EGY
	943	(944)	892	BUSHELAIBI Mohamed	BRN		1010	(unr)	837	PREIDZIUS Andrius	LTU
	943	(945)	892	KHOSHBAKHT Omid	SWE	nc	1011	(unr)	835	BEN HAMIDA Anas	TUN
	943	(951)	892	TAKAMI Masaki	JPN		1011	(1049)	835	DOUIFI Yaniss	ALG
*	943	(949)	892	WANG Can	USA	*	1013	(1010)	833	ANGELAKIS Konstantinos	GRE
	948	(954)	891	FOLWARSKI Jakub	POL		1014	(<<)	832	IVANOV Nikita	RUS
*	948	(954)	891	LIN Hsueh-Yu	TPE		1015	(1011)	831	MOREGARD Malte	SWE
	950	(959)	890	FLAGLIEN Espen	NOR		1016	(1012)	830	LARA Miguel	MEX
	950	(<<)	890	GUEYE Mohamed	SEN		1017	(1014)	828	NGWE NIKENG Emmanuel	CMR
	952	(951)	888	BASHT BAVI Hamed	IRI		1018	(1016)	826	POH Shao Feng Ethan	SIN
	952	(954)	888	ZIMARIN Artem	RUS		1019	(1017)	825	CHOBEAU Clement	FRA
	954	(<<)	887	ARCILA Carlos	COL	*	1020	(<<)	824	PRIETO Thales	BRA
	955	(994)	886	CIFUENTES Horacio	ARG		1021	(1019)	823	MARTINEZ Livan	CUB
	956	(958)	885	MIRCEA Alexandru	ROU		1022	(1072)	822	WANG Allen	USA
*	957	(959)	884	LEUNG Hui Hong	HKG	*	1023	(1021)	821	CHU Hoi Man	HKG
*	958	(963)	883	UGORTSEV Idan	ISR	*	1024	(1021)	820	JELIC Matej	CRO
nc	959	(unr)	882	KARLSSON Owe	SWE		1024	(1021)	820	RUIZ Jose Manuel	ESP
	960	(966)	881	DURMAZ Huseyin	TUR	*	1024	(1021)	820	VANNUCCI Marco	SMR
	960	(951)	881	LAANE Lauri	EST	*	1024	(1021)	820	XING Hangwei	CHN
	960	(966)	881	NEMATI Mohammed Reza	IRI	*	1024	(1017)	820	YIANGOU Yiangos	CYP
	963	(<<)	880	HOHMEIER Nils	GER		1029	(1027)	819	AMIRI NIA Soroosh	IRI
	964	(959)	879	RAO Roger	NZL	*	1029	(1021)	819	SANGPAO Komgrit	THA
ni	965	(unr)	876	ANTONAU Vadim	BLR	*	1031	(1013)	818	HRISTONOV Hristo	CYP
	965	(959)	876	LAMADRID Juan	CHI		1032	(1031)	816	OZTURK Ozgun	TUR
	967	(936)	875	JORGENSEN Eskild	NOR	*	1033	(1038)	815	DOVAL Erik	NOR
	967	(968)	875	LAI Chi-Chien	TPE	*	1033	(1032)	815	LEVINSKI Mishel	ISR
*	969	(<<)	872	SAMOKYSH Kyrylo	UKR	*	1033	(1032)	815	RENAVIKAR Shubhankar	IND
	970	(1049)	871	ZRAZHAVETS Mikalai	BLR	*	1033	(1027)	815	SUSS Leonard	GER
*	971	(<<)	869	BHARGAV Vivek	IND	*	1037	(1034)	814	KOVACEVIC Branimir	CRO
	971	(<<)	869	CHODRI Kunal	USA		1037	(1034)	814	MURAWSKI Michal	POL
	971	(<<)	869	DIAZ David	ESA	*	1039	(1037)	813	CHEN Shih-Yu	TPE
	971	(<<)	869	MALLORQUI Adria	ESP		1040	(1038)	812	CALDERON Julio	ESA
	971	(<<)	869	ROSAS Marcos	VEN	*	1041	(<<)	811	DEBIZHANSKY Y German	UKR
	976	(<<)	867	ZAGHLOUL Mohamed	EGY		1041	(1053)	811	ROBINSON Ashley	IRL
*	977	(979)	865	JERMPLONG Sataporn	THA	*	1043	(1041)	810	GUTIERREZ Gustavo	MEX
	977	(980)	865	MANOLE Alexandru	ROU	*	1043	(1041)	810	SUNG Min-Hong	TPE
*	979	(980)	864	KWONG Kai Hin	HKG		1045	(1052)	809	BERTRAND Irvin	FRA
	980	(976)	863	SIPOS Rares	ROU		1045	(1044)	809	BLOMQUIST Adam	SWE
*	981	(982)	862	MICHAUD Bryan	CAN	*	1047	(1046)	808	BORO Birdie	IND
*	982	(983)	859	BILON Olivier	NCL	*	1047	(1046)	808	DI MARINO Alessandro	ITA
	982	(983)	859	DOSZ Adam	POL		1047	(1038)	808	HERGELINK Bas	NED
	984	(986)	857	HENRIQUEZ Juan	ESA	nc	1047	(unr)	808	NADOLNYY Yuriy	UKR
	984	(987)	857	JHA Kanak	USA		1051	(1044)	805	CATHCART Dillon	AUS
	984	(978)	857	WERECKI Aleksander	POL	*	1051	(1049)	805	GILBERT Stephane	NCL
	987	(983)	856	KALUZNY Samuel	SVK		1053	(1089)	803	BEN YAHIA Kerem	TUN
*	987	(<<)	856	MAJSTOROVIC Marko	CRO		1053	(1048)	803	POLOZOV Sergey	RUS
*	989	(990)	855	CLOOS Jim	LUX		1055	(<<)	802	MALTCEV Aleksandr	RUS
	989	(<<)	855	JARDAS Ivan	CRO		1056	(1034)	801	KANTOLA Roni	FIN

MEN'S World Ranking

List No. 05

	1057	(1056)	800	LAWSON-GAIZER Fessou	TOG	1122	(1119)	751	O'CONNELL Daniel	WAL
	1057	(1053)	800	MERZ Philip	SUI	1124	(1123)	750	AL-DHUBHANI Magd	YEM
*	1057	(1056)	800	OH Wootaek	KOR	1124	(1121)	750	LIM Zheng Jie Edric	SIN
	1060	(1058)	799	JESZENSZKI Daniel	HUN	* 1126	(1122)	749	BASALDUA Fernando	MEX
*	1061	(1060)	797	MAESTRE Jose Luis	ESP	1127	(1124)	747	MARTINEZ Jeison	CRC
	1062	(1059)	794	RAMOS Yordi	ESP	1127	(1124)	747	SHAH Nishaad	IND
	1063	(1064)	792	HOSSEINI Sajad	IRI	1129	(1126)	746	AMRA Alireza	IRI
	1064	(1062)	791	KLAUS David	AUT	1130	(1126)	745	BAHA EL-DIN Mostafa	EGY
	1065	(<<)	790	ABICH Leon	GER	1130	(1128)	745	NAJAFI Mahdi	IRI
	1066	(1062)	789	KLEIN Dennis	GER	* 1132	(1129)	740	ARCE Damian	MEX
*	1066	(1067)	789	NARITA FILHO Henrique Mitsuo	BRA	* 1132	(1129)	740	MALHEIRO Antonio	POR
	1068	(<<)	787	KATIC Ivor	SRB	1134	(1129)	739	KUCERA Stanislav	CZE
*	1069	(1065)	786	LAMBIET Romain	BEL	* 1135	(1133)	737	BADOWSKI Marek	POL
	1069	(<<)	786	STOBBERUP Patrick	DEN	1135	(1201)	737	JARVIS Tom	ENG
	1071	(1091)	785	GALVANO Nicolas	ARG	* 1137	(1134)	736	LAU Jeremy	CAN
	1071	(1070)	785	JIMENEZ Ricardo	PUR	* 1138	(1132)	735	FUENMAYOR Daniel	VEN
*	1071	(1070)	785	YIM Man Cheuk	HKG	1138	(1135)	735	MARCATO Luca	ITA
	1074	(1075)	784	VILLA Jose	MEX	1138	(1135)	735	OH Juhyeong	KOR
	1075	(<<)	783	BELKADI Aissa	ALG	1141	(1137)	733	NOROUZI Peyman	IRI
*	1076	(1077)	782	JANKOVIC Lazar	MNE	1142	(1146)	732	CASTRO Mauricio	ARG
	1077	(1078)	781	KISELEV Maksim	RUS	* 1142	(1137)	732	LOW Ho Fung	HKG
*	1078	(1079)	780	ROMO Alberto	MEX	* 1142	(1139)	732	NAVARRO Pablo	VEN
ni	1078	(unr)	780	VIKTARAU Klim	BLR	* 1145	(1140)	731	DECEUNINCK Anthony	BEL
*	1080	(1072)	779	NGUYEN Thom	NZL	* 1146	(1141)	730	ARNAUD Gilles	NCL
*	1081	(<<)	778	KIM Petro	UKR	* 1146	(1141)	730	TEO Yi Sen Bryan	SIN
	1082	(1181)	776	AL-NAGGAR Abdulrahman	QAT	1148	(1146)	729	OU Jonathan	USA
*	1082	(<<)	776	TYMOFIEIEV Oleksandr	UKR	* 1149	(1144)	728	DOMINGUEZ Ramiro	MEX
	1084	(1082)	775	CHANG Chia-Chin	TPE	1149	(1143)	728	MAIN Calum	SCO
	1084	(1082)	775	LISKA Libor	CZE	1151	(1144)	727	BRESSAN Luca	ITA
	1086	(1103)	774	DABOUS Ahmed	EGY	1151	(1146)	727	HANSEN Jakob	DEN
	1086	(<<)	774	LEBEDEV Maxim	RUS	1151	(<<)	727	REMENTOV Grigorii	RUS
	1086	(1153)	774	MILOVANOV Andrey ^	BLR	1154	(1176)	726	KOPANYI Tomas	SVK
*	1089	(1086)	773	CHEN Bo Wen ^^	USA	1155	(1150)	725	LOY Meng Hean	SIN
*	1089	(1086)	773	KWAN Man Ho	HKG	* 1156	(1151)	724	MAGNUSSON Magnus K	ISL
*	1091	(1089)	772	BOBAS Ivan	BIH	1157	(1240)	722	STANKEVICIUS Medardas	LTU
	1092	(1082)	771	DARCIS Thibaut	BEL	* 1158	(1153)	721	JIANG Kaiyuan	CHN
	1092	(1091)	771	KYNDE Marc	DEN	1159	(1155)	719	SFILIGOJ Tom	SLO
*	1094	(1093)	770	KAHRAMAN Mirac	TUR	1160	(1156)	718	WELLINGER Philipp	AUT
*	1094	(1093)	770	SHING Yoshua	VAN	1161	(1146)	717	ALBERT Swanny	FRA
	1096	(1095)	769	KOBLIZEK Martin	CZE	c 1161	(1423)	717	SANTOS Vitor	BRA
nf	1097	(1029)	767	MAMIA Thameur	TUN	* 1161	(1156)	717	TASATO Leonardo	BRA
	1097	(unr)	767	OMOTAYO Olajide	NGR	* 1164	(1158)	715	TERNA Denis	MDA
	1099	(unr)	766	NAZAROVICH Pavel	BLR	* 1165	(1159)	714	GLOD Eric	LUX
	1099	(1096)	766	PERMAN Oscar	SWE	1165	(1159)	714	JUMA Hasan	BRN
	1099	(1096)	766	PLETEA Cristian	ROU	* 1167	(1163)	713	GHINEA Stefan	ROU
	1099	(1096)	766	THERIAULT Mathieu	CAN	* 1167	(1163)	713	SCHUBERT Jonathon	AUS
	1103	(1099)	765	HALAS Kristian	SRB	1169	(1165)	711	BERNHARD Denis	SUI
*	1104	(1100)	764	JIN Ethan	USA	* 1170	(1166)	710	BUREK Szymon	POL
*	1104	(1100)	764	LIU Dan ^^	USA	1170	(1166)	710	OBERFICHTNER Simon	AUT
*	1104	(1100)	764	WONG Ka Ho	HKG	* 1172	(1159)	709	PARRA Vicente	CHI
	1107	(1103)	763	ABUSHUWASHI Adir	LBA	1173	(1169)	708	ANCA Vladimir	ROU
*	1107	(1103)	763	SONG Jiawang	CHN	1174	(1171)	707	CASCANTE Jose	CRC
*	1107	(1103)	763	WAN Qiaoyu	CHN	1174	(1169)	707	KLOS Patrik	CZE
*	1107	(1103)	763	WANG Max Qinmin ^^	USA	1174	(1274)	707	SANCHI Francisco	ARG
	1111	(1109)	762	MORATO Adrian	ESP	* 1174	(1166)	707	TEROHATA Gustavo	BRA
	1112	(1110)	761	CHI Huang-Yang	TPE	1178	(1172)	703	SCHAFFTER Simon	SUI
*	1112	(1103)	761	NONOGAWA Diego	PER	* 1179	(1173)	701	PUIA Lalrin	IND
	1114	(1111)	759	POPOVIC Marko	SRB	* 1179	(1174)	701	REED Barney	USA
	1115	(1112)	758	EBADI POUR Amad Reza	IRI	1181	(1174)	700	GUNDUZ Ibrahim	TUR
*	1115	(1112)	758	WON SungBo	KOR	1181	(1176)	700	VIRMANI Sabhya	IND
*	1115	(1112)	758	XIA Max	CAN	1183	(1178)	699	FEIJOO Raul	PER
*	1118	(1116)	757	VAZQUEZ Miguel	MEX	1184	(1180)	698	BERARDI Mattia	SMR
	1119	(1116)	755	VILA David	DOM	1184	(1178)	698	TRAN Theodore	USA
	1120	(1118)	754	HAJIEI Arman	IRI	1186	(1181)	696	SHISHEGARHA Roohollah	IRI
	1120	(1115)	754	SHEMET German	QAT	1186	(1181)	696	ZATKO Juraj	SVK
*	1122	(1119)	751	CHIH De-Yang	TPE	* 1188	(1184)	695	SCHERER Tobias	AUT

MEN'S World Ranking

List No. 05

*	1189	(1184)	692	ALVAREZ Sergio	MEX		1254	(1247)	637	VITE Marlon	ECU
*	1189	(1187)	692	CASTRO Lidney	BRA	*	1254	(1250)	637	YANG Daekeun	KOR
*	1191	(1186)	691	CABRERA Adrian	ECU	*	1257	(1251)	636	HOLM Magnus Bolstad	NOR
*	1191	(1188)	691	VANEGAS Pablo	ECU	*	1257	(1251)	636	ORELLANA Gabriel	GUA
*	1193	(1189)	690	KUANG Li	CHN	*	1257	(1251)	636	PARK Sangmin	KOR
	1193	(1189)	690	PARK KyungSeok	KOR	*	1257	(1246)	636	TSAO Erny	AUS
	1193	(1189)	690	PUTUNTICA Andrei	MDA		1261	(1256)	634	BRUCKNER Mate	HUN
	1193	(1189)	690	VICARIO Gabriele	ITA	*	1262	(1257)	633	AULESTIA Ian	ECU
	1197	(1229)	686	EDWARDS Conor	WAL		1262	(1257)	633	SARSEMBAYEV Dias	KAZ
*	1198	(1200)	685	PEREIRA Gabriel	BRA		1262	(1259)	633	SILVA Paulo	POR
*	1199	(1193)	684	BARTON Scott	SCO		1265	(1260)	631	MARGIN Andrei	ROU
*	1200	(1194)	681	CHENG Zhiyang	NZL	*	1266	(1262)	630	CARVALHO Daniel	BRA
	1200	(1195)	681	ENGEMANN Gerrit	GER		1267	(1264)	628	WAERSTAD Marcus	NOR
	1202	(1284)	680	PRANDI Lucas	BRA	*	1268	(1262)	627	PANICHAROEN Naphat	THA
	1203	(1196)	679	RASMUSSEN Kasper	DEN		1269	(1264)	626	BIRO Balint	SVK
	1204	(1197)	678	MUAWADH Loay	BRN		1270	(1266)	625	MARTINKO Jiri	CZE
	1204	(1197)	678	OBA Don Ange Cedric	CIV	f	1271	(1349)	624	KOURILTCHIK Nikita	BLR
	1204	(1197)	678	ROSAS David	PAN	*	1271	(1267)	624	LALHUNHLUA	IND
	1207	(1261)	676	BIENATIKI Christ	CGO	*	1271	(1267)	624	TSOLOV Pavel	BUL
*	1207	(1204)	676	LAI Cheuk Yin	HKG		1274	(1269)	623	MARINKOVIC Nikola	SRB
*	1207	(1201)	676	LI Fengguang ^^	USA	*	1274	(1272)	623	WANG Lucas ^	CAN
	1207	(1201)	676	TAY Ming Han Maxxe	SIN		1276	(1270)	622	BOHM Gabor	HUN
	1211	(1206)	675	SCHAUMBERGER Martin	AUT		1276	(1270)	622	HOFMANN Florian	AUT
	1212	(1204)	674	MUTCOGLO Afanasi	MDA	*	1278	(1272)	620	SUPSIRIYOUKONG Kongkiat	THA
*	1213	(1207)	671	DAVIDOV Ronel	ISR	*	1279	(1274)	619	REBEZNYUK Nazariy	UKR
	1213	(1207)	671	IVONIN Denis	RUS		1280	(1279)	617	MCTIERNAN Liam	ENG
*	1215	(1209)	670	JIMENEZ Jair	MEX	*	1280	(1278)	617	SODERLUND Simon	SWE
*	1216	(1212)	668	ECHEVARRIA Brandon	PUR	*	1282	(1274)	616	EFSTATHIOU Andreas	CYP
	1216	(1210)	668	MOLINA Oscar	NCA		1283	(1281)	614	AVILES Erick	ESA
	1218	(1214)	666	BERNARDI Giovanni	FRA		1283	(1245)	614	GILES Marcus	ENG
*	1218	(1211)	666	CHAVES Antonio	ESP		1283	(1281)	614	GUERRA Jose	PAN
	1220	(1212)	665	NOVAK Tilen	SLO		1286	(1288)	613	DILLING Andreas	DEN
*	1221	(1214)	664	MUSTAPIC Josip	CRO	*	1287	(1284)	612	FREDDY Choy	KIR
*	1221	(1214)	664	NETREBKO Igor	UKR	*	1287	(1284)	612	HSU Nathan	USA
*	1221	(1214)	664	TRAN Vincent	AUS		1289	(1287)	611	KOVACS Sebestyen	HUN
	1224	(1214)	663	ABUSEV Artur	RUS	*	1290	(1289)	609	ROBA Matus	SVK
	1225	(1277)	662	ANTONIADIS Nikolaos	GRE		1291	(1279)	608	SULFARO Ivan	AUS
	1226	(1221)	661	GRININGER Thomas	AUT		1292	(1290)	607	FARRELL Ryan	IRL
	1226	(1219)	661	SOW Hamidou	SEN	*	1293	(1291)	606	KOMLUSAN Stefan	SRB
	1226	(1219)	661	VILA Isaac	DOM		1294	(1293)	603	ANDERSSON Erik	SWE
*	1229	(1221)	660	LEE Adrian	CAN	*	1294	(1293)	603	PEDRA Rodolfo	POR
*	1230	(1221)	659	SZYMCZYK Jan	POL	*	1294	(1293)	603	PRESTRESHI Yili	KOS
	1230	(1227)	659	VILENCHYTS Nikita	BLR	i	1294	(1459)	603	TITOLO Franco	ARG
*	1232	(1224)	658	BERT Coentien	FRA	*	1298	(1297)	602	ROUSSEAU-EMOND Vincent	CAN
	1232	(1224)	658	JOHANSEN Jorgen	NOR		1298	(1291)	602	VAN DER HEIDEN Nathan	AUS
*	1234	(1226)	657	ALCARAZ Gonzalo	ARG		1298	(1297)	602	ZARNESCU Dan	ROU
	1234	(1244)	657	SALAH Khalifa	QAT	*	1301	(1299)	601	DECARY Jeff	CAN
	1236	(1227)	656	ULUCAK Batuhan	TUR		1302	(1300)	598	BIVEINIS Jokubas	LTU
*	1237	(1229)	655	CORONEL Frangher	VEN	*	1302	(1300)	598	CITAKU Linor	KOS
	1237	(1233)	655	GULLBO Viktor	SWE		1302	(<<)	598	GEORGSSON Vilmer	SWE
*	1237	(1229)	655	JATEJAROUNGKIT Jirapas	THA		1305	(1303)	596	ALKHADRAWI Ali	KSA
*	1240	(1235)	653	TOMASZUK Tomasz	POL	*	1305	(1293)	596	AMAYA Osmar	MEX
*	1241	(1236)	652	CHEN Yen-Heng	TPE		1307	(1304)	594	ALBUFALASA Yusuf	BRN
	1241	(1236)	652	HILKER Marcus	GER	*	1307	(1304)	594	PAGE Mark	NZL
	1243	(1242)	651	LEE Jeongmin	KOR	*	1309	(1304)	593	DIAS Diego	BRA
*	1244	(1239)	650	TSAI Chun-Yu	TPE	*	1310	(1309)	591	AVVARI Krishnateja	USA
	1245	(1240)	649	BILAS Arthur	BEL		1310	(1309)	591	KOTOV Anton	RUS
*	1245	(1233)	649	FIELDING David	AUS		1312	(1435)	590	TSOPELAS Andreas	GRE
	1245	(1229)	649	TRUJILLO Hernan	ARG		1313	(1311)	589	AUTIO Riku	FIN
	1248	(1236)	648	SAAREMAE Rivo	EST	*	1314	(1312)	588	SAKATA Alex	BRA
	1248	(1242)	648	ZATREPALEK Michal	CZE	*	1315	(1313)	587	YEUNG Klement	CAN
	1250	(unr)	641	LI KAM WA Warren	MRI	*	1316	(1314)	586	FIGUEROA Daniel	COL
*	1251	(1247)	639	GIRALDO Camilo	COL		1317	(1315)	584	KARIN Filip	SUI
*	1252	(1251)	638	LAWRENCE Daniel	ENG		1318	(1317)	583	MOLAND Lucas	FRA
*	1252	(1249)	638	PATEL Aashay	USA	nc	1319	(unr)	581	AYODELE Sunday	NGR
	1254	(1251)	637	TIKHONOV Bogdan	RUS		1319	(1318)	581	PERRI Roberto	ITA

MEN'S World Ranking

List No. 05

	1321	(1319)	580	PINTO Daniele	ITA		1387	(1384)	523	BONETTI Elia	ITA
*	1322	(1321)	578	BENTO Jeferson	BRA		1387	(1383)	523	PALAMARCHUK Vladislav	RUS
	1322	(1357)	578	MYLLARINEN Markus	FIN	*	1389	(1363)	522	VERA Josue	PER
	1324	(1321)	577	KASSAY Andrej	SVK		1389	(1384)	522	WELSCHBILLIG Louis	FRA
	1324	(1323)	577	SANAD Rashed	BRN	*	1391	(1386)	521	MAYIL Emre	TUR
*	1326	(1324)	576	BARROSO Jose Manuel	ESP		1392	(1437)	520	KANASHIRO Joaquin	ARG
	1327	(1408)	575	MATHOLE Terrence	RSA	nc	1392	(unr)	520	WANG Wei	TPE
	1328	(1307)	574	BABEKIDIO Grace	CGO		1394	(1387)	519	BOLENIUS Anton	SWE
	1328	(1326)	574	MORAN Alexander	CAN		1394	(1387)	519	MUNOZ Guillermo	HON
	1328	(1326)	574	XU Jannik	GER	*	1394	(1387)	519	WILSON Aaron	TRI
*	1331	(1326)	573	GOMES Antonio	POR	*	1397	(1390)	518	LITOVCCENCO Gheorghe	MDA
	1331	(1329)	573	IVCHENKO Vitalii	RUS		1397	(1390)	518	UMANZOR Carlos	ESA
	1331	(1329)	573	LLORCA Damien	FRA	*	1399	(1392)	517	HOUGHTON Ben	AUS
*	1334	(1332)	570	UNO Thomas	BRA		1399	(1431)	517	WHEELER Christopher	SCO
	1335	(1415)	568	BRAT Adam	SVK	*	1401	(1394)	514	CHENG Lap Kiu	HKG
	1335	(1331)	568	JOVICIC Luka	SRB		1401	(1394)	514	SPELBUS Florin	ROU
	1335	(1336)	568	LI Xuebo ^	CAN	*	1403	(1397)	513	CUCCU Giovanni	ITA
*	1338	(1332)	567	LULU Ham	VAN		1403	(1397)	513	PRIME Sebastien	FRA
*	1339	(1335)	566	HERSKIND Micki	DEN	*	1405	(1399)	512	BOROWER Ron	ISR
	1340	(1337)	564	TAHER Omar	IRQ	*	1405	(1393)	512	RAUV Danny	AUS
	1341	(1365)	563	KABOUDI Mehdi	TUN	*	1405	(1399)	512	RIVERA Rehuel	PUR
*	1342	(1339)	562	ABRAHAMYAN Gevorg	ARM	*	1405	(1404)	512	SIBELIUS Elias	SWE
*	1342	(1339)	562	SHAH Aarsh	USA		1409	(1394)	511	PAVOLKA Jakub	SVK
*	1344	(1342)	561	GONZALEZ Yomar	PUR	*	1410	(1403)	509	MAUNGWHAN Chayaduj	THA
*	1344	(1332)	561	REGAIRA Santiago	PER	nc	1411	(unr)	508	KACOWICZ Santiago	URU
*	1346	(1339)	559	WU Teddy	CAN		1411	(1416)	508	LINGVELDT Keegan	RSA
*	1347	(1345)	557	AZARSKY Asaf	USA		1411	(1401)	508	LUNDSTROM Thomas	FIN
	1347	(1338)	557	HUANG Dominic	AUS		1414	(1406)	507	RIZZO Daniele	ITA
	1347	(1345)	557	MORALES Rodrigo (YOB=1995)	BOL		1415	(1411)	506	ANDERSSON Patrik	SWE
	1347	(1344)	557	PIGNER Matthieu	FRA	*	1415	(1404)	506	JUAREZ Mauricio	MEX
	1351	(1347)	556	SMID Stellan	NED	*	1415	(1407)	506	PAK Kwang-Bin ^^	USA
*	1352	(1347)	555	DAIX Pol	LUX		1418	(1408)	504	UMANZOR Ariel	ESA
*	1353	(1349)	554	WISUTMAYTHANGKOON Supanut	THA		1419	(1412)	501	BASHIRI Mohammad	IRI
	1354	(1351)	553	PAULIN Erik	SLO	*	1419	(1412)	501	CONCEICAO Filipe	POR
	1355	(1352)	550	PINTO Miguel	POR		1419	(1408)	501	REYNAUD Joris	FRA
	1356	(1355)	547	SIMON Mathan	ISR	*	1422	(1414)	500	JAYASUNDARA Nuwan	SRI
	1357	(1367)	546	MASSARO Enrique	CHI		1422	(1416)	500	MENAND Remi	FRA
*	1358	(1356)	545	HONG Kyeongki	KOR	ni	1424	(unr)	499	PENHA Gabriel	BRA
	1359	(1361)	544	BATOCCHI Hugo	FRA		1425	(1416)	498	MELKUEV Semen	RUS
	1359	(1357)	544	WILLIAMS Lewis	WAL	*	1426	(1419)	496	CANTUARIA Luan	BRA
	1361	(1359)	543	ARBANAS Josip	CRO		1427	(1421)	494	EFIMOV Mikhail	RUS
	1361	(1362)	543	ILJJEVSKI Filip	CAN	i	1428	(1460)	493	JOFFRE Tomas	ARG
	1361	(1359)	543	NEMECEK Jakub	CZE		1429	(1424)	489	HASHIMLI Khayal	AZE
	1361	(1421)	543	O'CONNOR Miiikka	FIN		1429	(1420)	489	HAZIN Jeremy	CAN
	1365	(1353)	541	ELHAMADY Omar	EGY	*	1431	(1425)	488	GILMORE Scott	AUS
	1365	(1353)	541	GARCIA Danny	ECU	*	1432	(1426)	487	CISSA Victor	MDA
	1367	(1364)	538	DOSZ Slawomir	POL		1432	(1426)	487	EBRAHIMI KASGAMIJANI Saman	IRI
*	1367	(1369)	538	MENDONCA Duarte	POR		1432	(1426)	487	SMALJCELJ Aljaz	SLO
*	1369	(1365)	537	LEE Hung-Yi	TPE		1435	(1432)	480	MEDJUGORAC Marko	CAN
	1370	(1377)	535	KOPRIWA Lukas	SWE		1435	(1432)	480	PETROVIC Martin	CRO
*	1370	(1367)	535	PUANGTHIP Sirawit	THA	nc	1435	(unr)	480	SHIMOKI Matheus	BRA
nc	1372	(unr)	533	BROZ Petr	CZE	*	1438	(1429)	477	RIOFRIO Emiliano	ECU
nc	1373	(unr)	532	BELKADI Amine	ALG	*	1439	(1434)	474	LAI VAN Fabien	NCL
	1373	(1370)	532	MOHED Osama	SUD		1440	(1435)	473	ABDEL-AZIZ Youssef	EGY
*	1375	(1371)	531	KIM Kangtae	KOR	nc	1441	(unr)	470	AWOBAJO Kehinde	NGR
*	1375	(1371)	531	STILLING Victor	DEN	*	1442	(1437)	469	CLYDE Stephen	USA
*	1377	(1373)	530	YUE Mike	CAN		1443	(1439)	467	RUOHONEN Sami	FIN
	1378	(1374)	529	AYAOU Basil	BEL	nc	1443	(unr)	467	TAMBA Olivier	CGO
c	1378	(1495)	529	ELHAKIM Karim	EGY	*	1445	(1441)	466	WATTHANASIRICHAIPORN Suppakorn	
*	1378	(1374)	529	WONG Ho Hin	HKG		THA				
*	1381	(1376)	528	KJELDGARD HANSEN Kenneth	DEN		1446	(1439)	465	RIBACK Ignacio	ARG
	1382	(1377)	527	ALSHARIF Muhamed	KSA	*	1446	(1441)	465	WONG Chun Cheun	MAS
*	1382	(1377)	527	CROITORO Mark	USA	*	1448	(1443)	464	GONG Tong Tong	USA
*	1384	(1380)	526	URAWAN Vorranon	THA		1448	(1470)	464	NYBERG Jan	FIN
	1385	(1381)	525	ALDMAISY Zeyad	JOR	*	1448	(1429)	464	POLAKOF Alen	URU
*	1385	(1381)	525	PIMRAT Nithipat	THA	*	1451	(1445)	461	SUEYASU Willian	BRA

MEN'S World Ranking

List No. 05

	1452	(1446)	458	AL-OTAIBI Khaled	KUW	*	1516	(1512)	379	YAMAMOTO Naoya	AUS
*	1452	(1446)	458	TSOI Ka Wai	HKG		1519	(1514)	378	MABROUK Ahmed	EGY
	1454	(1448)	455	REIS Joao	POR	*	1519	(1514)	378	ROMEU Emilio	ESP
*	1455	(1449)	454	MADAPATHAGE Rodrigo	SRI	*	1521	(1516)	376	BAEK Dong Ju	GUA
	1456	(1449)	450	LOWE Daniel	NZL	*	1522	(1519)	374	BELLAoui Ben	LUX
*	1456	(1451)	450	RACIC Nemanja	MNE		1522	(1521)	374	PICARD Vincent	FRA
	1458	(1452)	449	YIGENLER Abdullah	TUR	ni	1524	(unr)	373	POLITI Giuliano	ARG
*	1459	(1452)	445	DUFFY Jake	AUS		1524	(1520)	373	RUIZ Ronald	CRC
	1460	(1454)	444	NENASHEV Ivan	RUS		1524	(1478)	373	SCHVAB Brian	ARG
	1461	(1455)	443	HEISZMAN Henrik	HUN	*	1527	(1523)	371	PUNNONEN Petter	FIN
*	1462	(1456)	442	TOTKALO Vladyslav	UKR		1528	(1538)	369	ALI Kanate	CIV
	1462	(1456)	442	VENDE Gael	SUI	c	1529	(1517)	368	TRABELSI Ayman	TUN
*	1462	(1456)	442	ZONIOS Paris	GRE	*	1529	(1525)	368	ZENG Xun	CHN
	1465	(1461)	438	FRIGIOLINI Nicholas	ITA	*	1531	(1526)	367	OAK Niraj	USA
	1466	(1467)	435	MARTINOVIC Niksa	SRB	*	1531	(1517)	367	SHEN Yang	AUS
*	1467	(1463)	433	LASHKOSKI Andrej	MKD		1533	(1528)	364	HEIDARI Matin	IRI
*	1468	(1464)	432	MAELAND Magnus	NOR	*	1534	(1530)	362	SEEMILLER Daniel	USA
*	1469	(1465)	431	MOLIST Sergi	ESP	*	1534	(1530)	362	WALK Michael	USA
*	1470	(1467)	430	BUTLER Scott	USA	*	1536	(1533)	361	LESIV Rimas	LTU
	1471	(1469)	428	GERHOLD Alexander	GER	*	1536	(1529)	361	VERHUNOV Roman	BLR
f	1472	(1485)	426	BEN MEKKI Nadim	TUN	*	1538	(1534)	358	MAHOOD Nicholas	JAM
	1472	(1471)	426	NALEPA Kamil	POL		1538	(1534)	358	SAUE Erik	NOR
nc	1474	(unr)	425	NEKHVIADOVICH Vitali	BLR		1540	(1537)	354	BARAN Sebastian	POL
i	1474	(1444)	425	WALDSZAN Matias	ARG	ni	1541	(unr)	353	CHERNY Federico	ARG
	1476	(1465)	424	BEN HAMOUDA Dhiaeddine	TUN	nf	1541	(unr)	353	DE VOSS Nicolai	DEN
*	1476	(1472)	424	ROOPNARINE Arun	TRI	*	1541	(1538)	353	SINKEYVYCH Bohdan	UKR
*	1478	(1474)	423	CHMELOV Rodion	UKR		1544	(1542)	352	BU SHULAYBI Abdulaziz	KSA
*	1479	(1472)	422	BRITO Jorge	BRA		1544	(1540)	352	SEDDIGH Amirhossein	IRI
*	1479	(1475)	422	KOCH Vincent	SWE		1546	(1541)	351	PUPPO Enrico	ITA
*	1481	(1477)	421	BOCKOVEN Chase	USA		1546	(1545)	351	SKIRMANTAS Benas	LTU
c	1481	(1555)	421	LIYAU Juan	PER	*	1548	(1542)	350	YANEV Viktor	LTU
	1483	(1479)	418	ACEVEDO Amilcar	GUA		1549	(1548)	346	SPANIK Tibor	BUL
*	1483	(1479)	418	FOWLER Blair	SCO	nc	1549	(unr)	346	STREHL Matias	SVK
	1485	(1481)	416	MUSTONEN Aleksi	FIN	nc	1551	(unr)	344	LARA Nicolas	URU
	1486	(1481)	415	DEHESTANI Mehrdad	IRI	*	1551	(1547)	344	MONTUFAR Mynor	ARG
*	1487	(1483)	414	RADOVIC Nikola	MNE		1553	(1548)	343	BEN-ARI Aviv	GUA
	1488	(1485)	413	LABANAU Andrei	BLR		1553	(1546)	343	JANSSENS Matthias	ISR
*	1489	(1485)	412	GUO Moxi	CAN	*	1555	(1548)	342	MICHELSSEN Kasper	BEL
f	1489	(1521)	412	RAHMOU Abdelrahman	EGY		1555	(1548)	342	MICHELSSEN Kasper	DEN
*	1491	(1489)	410	CHRISTOU Charalambos	CYP		1556	(1551)	341	SACHUK Kiryl	BLR
*	1491	(1489)	410	MICHAILIDIS Ilias	GRE	c	1557	(1530)	340	NILSSON Melker	SWE
*	1493	(1491)	409	MABEY Sam	ENG	*	1557	(1552)	340	ZELKO Damjan	SLO
*	1493	(1483)	409	SUY Leon	AUS		1559	(1552)	339	JOVIC Dorde	SRB
	1495	(1493)	408	CANDELORI Michele	ITA		1560	(1565)	336	AL-SULAITI Mohammed	QAT
nc	1496	(unr)	406	BORTOLI Rodrigo	ARG		1561	(1556)	331	CVETKO Tilen	SLO
*	1496	(1494)	406	NG Abraham	AUS	*	1561	(1554)	331	ZOU Daniel	AUS
*	1498	(1492)	404	VON EINEM Samuel	AUS	*	1563	(1557)	328	THORFINNSSON Bendik	NOR
*	1499	(1496)	403	GAO Baiyi ^^	USA	*	1564	(1557)	327	MURAT Matej	CRO
	1500	(1497)	400	BRUNNER Dimitri	SUI	i	1565	(1542)	324	TOLOSA Santiago	ARG
	1501	(1498)	399	HUANG Po-Kai	TPE		1566	(1560)	323	MERINGDAL Fredrik	NOR
*	1501	(1498)	399	ORTEGA Simon	MEX		1567	(1562)	318	BUBEN Vlastimil	CZE
	1503	(1500)	396	ANG Jun Alcalvie	SIN		1567	(1561)	318	DIKO Matus	SVK
*	1504	(1501)	393	ARSLAN Mustafa	TUR		1569	(1562)	317	AL-HASHEDI Ammar	YEM
	1505	(1507)	392	CHAIEB Soufiane	TUN	*	1569	(1562)	317	BAGDONAS Dovydas	LTU
*	1506	(1503)	391	KAPIK Krzysztof	POL		1571	(1559)	314	IWARSSON Hannes	SWE
f	1507	(1572)	390	APELQVIST William	SWE		1572	(1567)	302	MEINSETH Mats	NOR
*	1507	(1504)	390	KRUUSALU Kaspar	EST	*	1573	(1566)	299	MELLIGER Andrin	SUI
*	1509	(1504)	389	LUO Michael ^	CAN		1574	(1568)	296	MAPHUNTHANA Sadayu	THA
*	1510	(1506)	386	GOMEZ Jose	MEX		1575	(1569)	295	BARDET Lilian	FRA
f	1510	(1523)	386	MAYTA Mauricio	PER	*	1576	(1570)	294	JANG Dongju	KOR
*	1512	(1509)	385	LEGARIA Alex	MEX		1576	(1570)	294	VASICEK Jan	CZE
c	1513	(1510)	383	ECHEVARRIA Luis	PUR		1578	(1573)	292	ALYASSI Alyas	BRN
*	1513	(1502)	383	MATSUBARA Yutaka ^^	CHI	c	1579	(1581)	287	BABAFEMI Babatunde	NGR
	1515	(1510)	380	BOGIE Roel	NED		1579	(1575)	287	HRIBAR Peter	SLO
	1516	(1512)	379	MARCHAL Nicolas	BEL		1581	(1576)	286	FUKUDA Junta	JPN
	1516	(1507)	379	RANTATULKKILA Emil	FIN	c	1581	(1599)	286	MOREGARD Truls	SWE
							1583	(1574)	285	WANG Roger	NZL

MEN'S World Ranking

	1584	(1577)	284	PACE Leonardo	ITA
i	1585	(1597)	274	HAMDOUN Nathael	TUN
	1586	(1578)	270	DENDAN Abdelrahman	EGY
f	1587	(1606)	268	ANDRE Elizandro	ANG
	1588	(1580)	265	BALABAN Ademir ^^	LUX
	1589	(1579)	263	SINGEORZAN Bogdan	ROU
	1590	(1582)	261	MLADENOVIC Luka ^	LUX
	1590	(1583)	261	SPOTTOG Jeppe	DEN
nc	1592	(unr)	258	LAZAZI Mohamed	ALG
*	1593	(1585)	254	JEDRZEJCZAK Jakub	POL
*	1593	(1584)	254	LEBEDA Agnius	LTU
i	1595	(1592)	251	LAGHA Chouayb	TUN
*	1596	(1586)	249	AL-KORBI Mohammed	QAT
f	1597	(1607)	248	ANTONIO Alessio	ANG
	1598	(1587)	247	HOEL Mats	NOR
	1599	(1588)	243	KIPPEL Viggo	SWE
	1600	(1590)	239	ALAJMI Husain	BRN
c	1601	(1598)	229	FRIIS Martin	SWE
i	1602	(1589)	228	HESSELGREN Johan	SWE
*	1603	(1594)	225	ZINE EL ABIDINE Saad	MAR
*	1604	(1595)	223	MOMMESSIN Alexis	FRA
*	1605	(1596)	220	MORALES Diego	GUA
	1606	(1599)	213	DOYEN Antoine	FRA
nc	1607	(unr)	200	LIGNANDZI Michel	CGO
*	1608	(1602)	194	RISSANEN Patrik	FIN
*	1608	(1602)	194	VALENZUELA Edwin	GUA
	1610	(1602)	193	KANTONISTOV Mikhail	FIN
	1611	(1605)	190	SULTONOV Ubaydullo	TJK
	1612	(1608)	184	PICCIOTTO Daniel	USA
*	1613	(1609)	182	SETA Ikkal	BIH
	1614	(1601)	181	SAADAOUI Mootezz	TUN
	1615	(1610)	177	ECHEVARRIA Sebastian	PUR
i	1616	(1623)	169	HENIN Valentin	BLR
	1617	(1612)	167	HANSEN Thomas	DEN
f	1617	(1611)	167	MAKHLOUF Mehdi	TUN
*	1619	(1613)	156	PAE Mihkel	EST
c	1620	(1628)	153	KOUASSI Ange-Aime	CIV
	1621	(1615)	150	WAEI Ziad	EGY
	1622	(1616)	142	HASANOV Hilal	AZE
	1623	(1618)	138	ROZINEK Vojtech	CZE
i	1624	(1617)	135	KAHLOUN Khaled	TUN
c	1625	(1623)	121	HASSINE Salim	TUN
*	1626	(1620)	105	SVEISTYS Erikas	LTU
	1627	(1621)	102	YAHYA Mohamed	EGY
*	1628	(1622)	96	FRANCKAITIS Romualdas	LTU
ni	1629	(unr)	77	KIASSI Regis	CGO
*	1630	(1627)	75	VESTLI Toomas	EST
nc	1631	(unr)	71	DJOUADI Mohamed	ALG
i	1632	(1631)	58	AMMOUS Omar	TUN
	1632	(1630)	58	BRANDTZAEG Edvard	NOR
i	1634	(1626)	57	AL-HADDAD Mohammed	QAT
*	1635	(1632)	48	OISMETS Aaro	EST

"PLASTIKBALL" ERSETZT ZELLULOIDBALL

[zurück](#)

Die ITTF wird den neuen Plastikball im Juli 2014 einführen.

Da bei der Produktion des neuen Balles kein Zelluloid mehr verwendet wird, ist mit abweichenden Eigenschaften im Vergleich zum Zelluloidball zu rechnen. Hierzu hat die ITTF neue Studien veröffentlicht.

Obwohl die offiziellen Angaben von Größe und Gewicht des regulären Tischtennisballes keine Änderungen vorsehen, sind solche in minimaler Weise nachgewiesen worden. Im Vergleich zum Zelluloidball wird der neue Ball eine Spur größer sein, da dieser nun exakt die 40mm Messlehre ausfüllt. Zusätzlich sind die neuen Bälle eine Spur leichter. Es wird auch davon ausgegangen, dass die verwendete Kunststoffmischung einen etwas höheren Luftwiderstand verursacht. Im Wesentlichen führen diese Erneuerungen zu folgenden Unterschieden:

- Der neue Plastikball springt höher von der Tischplatte ab.
- Die Flug- als auch die Rotationsgeschwindigkeit des Balles nimmt während der Flugphase schneller ab.

Daraus resultiert vor allem im tischfernen Spiel, wie etwa in Gegentopspin-Rallys oder beim Spiel gegen Verteidiger, ein Plus an Treffsicherheit.

- [weitere Informationen \(PDF\)](#)





INTERNATIONAL TABLE TENNIS FEDERATION
Equipment Committee

16 April 2013

Subject: Poly Ball

As approved by the BoD 2012, the poly balls will be introduced at ITTF events as of July 2014.

The new balls will differ from the present balls used, since they are made of plastic instead of celluloid.

So far we know about two production methods; one by gluing two halves together – as for celluloid balls – and the second one by a different process – called rotational moulding.

Hence, these balls will behave a bit differently from our present ones. We have had some poly balls without seam for testing and comparison with celluloid balls. You can find the results of the testing in following pages, as well as, on our website at the right column of the [Equipment / Balls Session](#), the file called "*Poly – Celluloid Balls testing*".

We would like to thank everyone who helped with conducting this testing and for agreeing to have the results published; ESN in Germany, Dr. Dirk Meyer and Konrad Tiefenbacher.

Odd Gustavsen
Chairman of the Equipment Committee



Comparison of plastic (“poly”) and celluloid balls

Evaluation of difference for rebound on racket and player perception

Dr. Dirk Meyer, Konrad Tiefenbacher
Hofheim, November 6th, 2012

Aim of the study

It was the purpose to find out how much speed and spin is generated when the two types of balls hit the racket under conditions that correspond at typical table tennis strokes.

Two approaches had been used: Recording of subjective perceptions of test players after tryouts as well as an established scientific method where typical strokes are simulated and measured in the lab.

Background

Competition rubbers cause an effect allowing production of speed and spin at impact. The result of the impact is dependent on many parameters, one of these are the ball properties. When a ball made of different material and construction is introduced this may lead to different production of speed and spin in table tennis compared at established Celluloid balls. Thus the whole game of table tennis may be changed.

Summary of results

Higher rebound

Measurement and feeling of test players fit together. There is a deceleration on table in horizontal direction and higher speed in normal direction after rebound.

General speed of the ball

Given impact results here concern only the speed immediately after impact. But the speed / spin measurements get indications that the velocity of the plastic ball decreases in the air more than the velocity of the celluloid ball.

Reasons for this could be

- the air resistance of the material
- the size of the plastic ball (now "really" 40mm ball -> bigger than celluloid-ball)
- weight (in centre between of the tolerance limits -> lighter than celluloid).

Decreasing of speed at Topspin strokes

Measurements show esp. at Topspin strokes an increase of speed after interaction with the covering. The feeling of the test players to receive a slower ball than with celluloid ball can be explained with the interaction (deceleration) of the ball at the table and loss of speed on the trajectory due to air resistance.

Conclusions

- The overall behaviour of the plastic ball is accepted by the test players.
- Most of the tested coverings show only small changes in behaviour.
- Differences between the coverings (developped for the celluloid ball) will decrease.
- One covering will have a clear advantage from the plastic ball regarding production of spin and speed. But this one was 4.2mm thick, had quite poor behaviour with celluloid, catches up but does not outdistance the others.

Description of test methods

Tryouts

Test players that are used to compare equipment in table tennis as part of their profession exercised with the two types of balls. Their subjective perceptions have been recorded and summarized.

Measurements

The other method is a more scientific approach and more difficult to explain. The idea is to objectively measure differences in rebound.

It is very difficult to measure speed and spin in real table tennis. Further it is difficult to find differences between materials in game situations using human test players due to the variation of strokes when executing supposedly same strokes.

Due to non-linear behaviour of material on the other hand it is important to measure under conditions that correspond to real striking conditions.

Thus the approach (change of frame of reference) to objectively measure difference in impact behaviour is the following:

- Special playing exercises containing a typical stroke of interest are filmed in a special setup for several players. Strokes in statistic number are then analysed with the goal to record speed, angles and spin of ball and racket right before they hit each other.
- Out of these results then an average hitting condition is defined for this stroke element.
- The relative speed, angle and spin of the ball are then calculated (change of frame of reference from "Table-Tennis-System" to "Lab-System", mathematical formalism)
- These values are then taken as input parameters for Lektor device which allows to measure in "Lab-System": It allows projecting the ball on a racket at rest with almost any freely selectable speed and spin of ball and angulation of racket.
- Then balls are projected on the racket under these conditions. Since ball rebound is not completely reproducible, to obtain meaningful results it is important to do this for each stroke and material with a statistic number of impacts.
- For each impact incoming and outgoing speed and angle is measured as well as spin is also determined.
- The mean result for this experiment with racket at rest ("Lab-System") then is retransferred to "Table Tennis System" by mathematical reversion of the previous change of frame of reference.
- To simplify presentation results are then recalculated in relative gain or loss of speed and spin compared to a reference rubber with reference ball.

By comparison with results from various research groups (measuring "real play" interaction) for several interrogations over decades the method has been proofed to work.

Tested samples and measurement conditions

Ball samples tested

- Celluloid ball: Commercial approved three-star ball from one brand without any further selection
- Poly ball: Seamless ball from best veer category (passing veer test on all five axis)

Rubber samples tested (short description not going into detail)

- A) Classic rubber
- B) Modern rubber type 1) semi hard sponge
- C) Modern rubber type 2) reference
- D) Modern rubber type 3) hard sponge
- E) Modern rubber type 4) soft sponge
- F) Modern rubber type 5) hard sponge
- G) Semi-modern sticky rubber, hard sponge 4.2mm

For each type of rubber several samples have been tested with at least 50 impacts per rubber, hitting condition and ball type.

Measurement conditions (short description not going into detail)

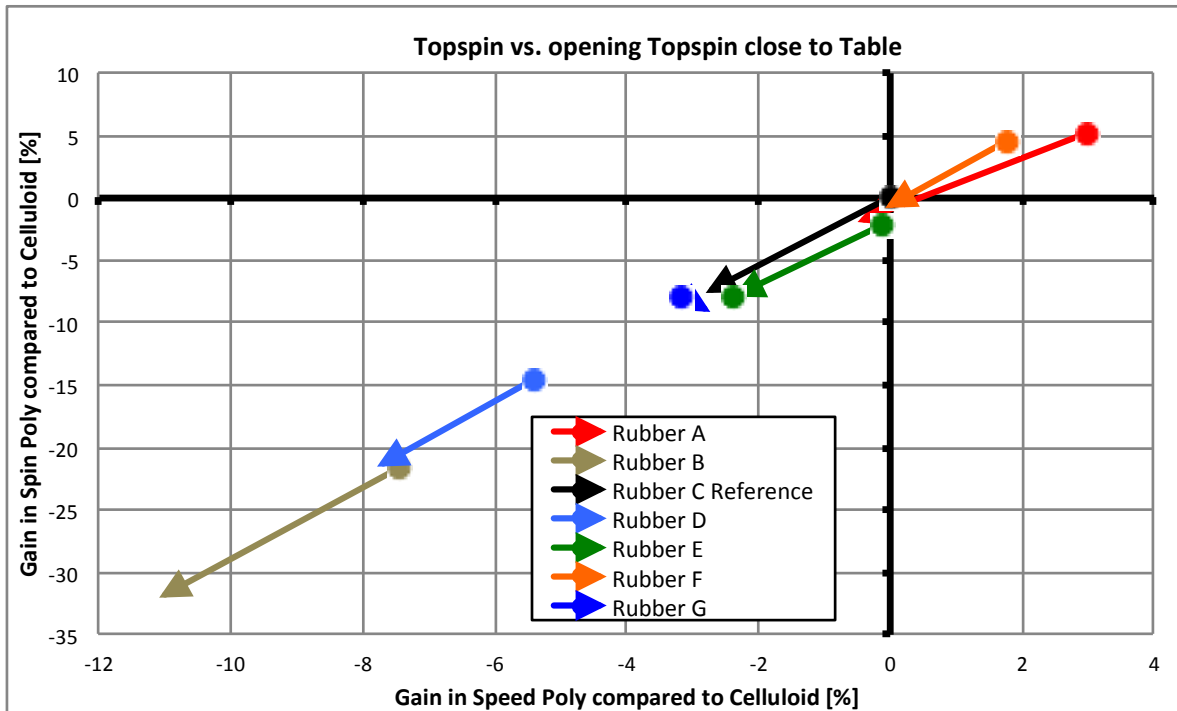
- Topspin vs. opening Topspin close to table
- Topspin vs. Block
- Topspin vs. Push
- Topspin vs. Topspin away from table
- Block vs. Topspin

Explanation of target figures

As explained above results are given as relative gain or loss of speed (x-axis) and spin (y-axis) compared to reference (rubber C with reference celluloid ball type). The starting point of each arrow marks the value for Celluloid ball and the end point for Poly ball. In this type of presentation it is logic that the start point for arrow of rubber C is always in the origin (reference rubber with celluloid ball).

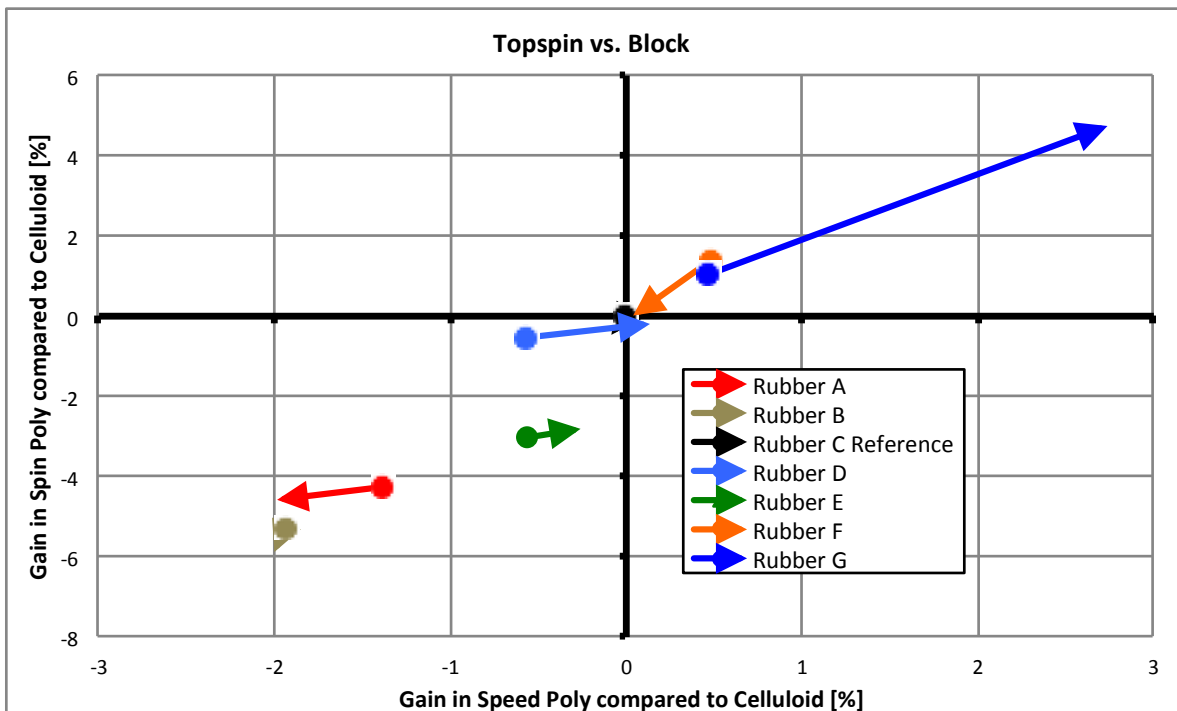
Measurement Results

Topspin close to table against an arriving opening Topspin



All rubbers (except G) lose both speed (2%) and spin (5%) with Poly ball compared to Celluloid ball

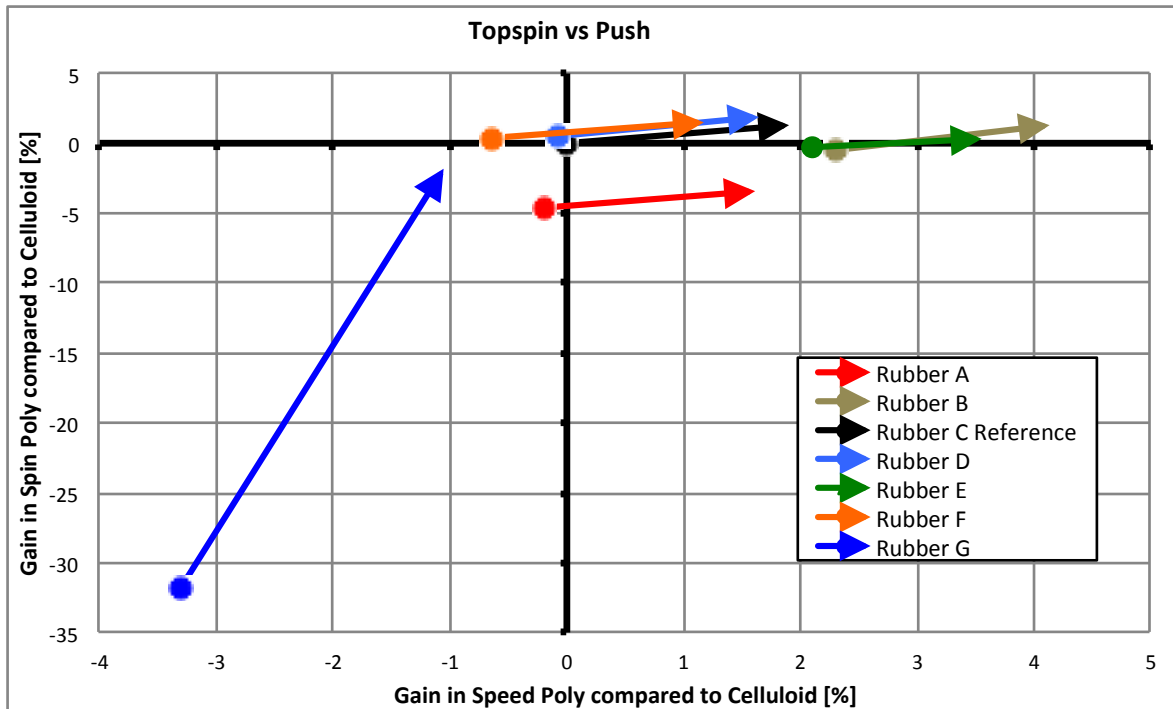
Topspin against arriving Block



In general there is not much difference found between the two types of balls, some rubbers gain, some lose spin and speed around less 1%

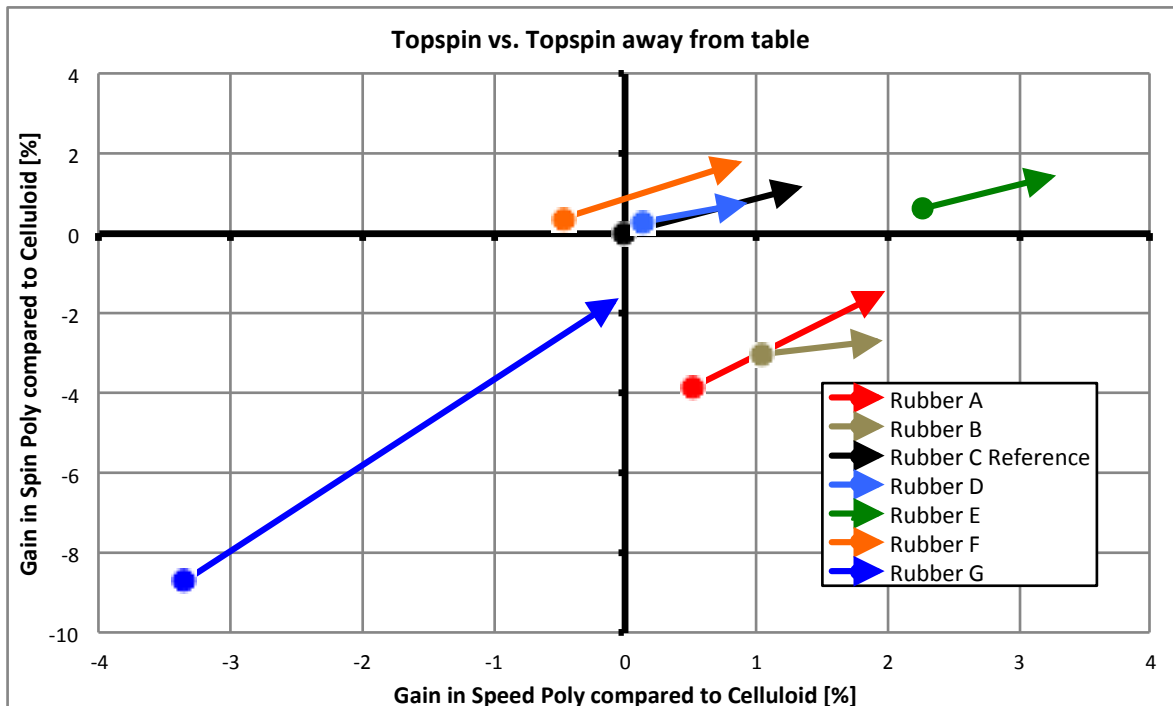
G wins a lot, 2% in speed and 4% in spin with Poly ball compared to Celluloid ball

Offensive Topspin against an arriving push



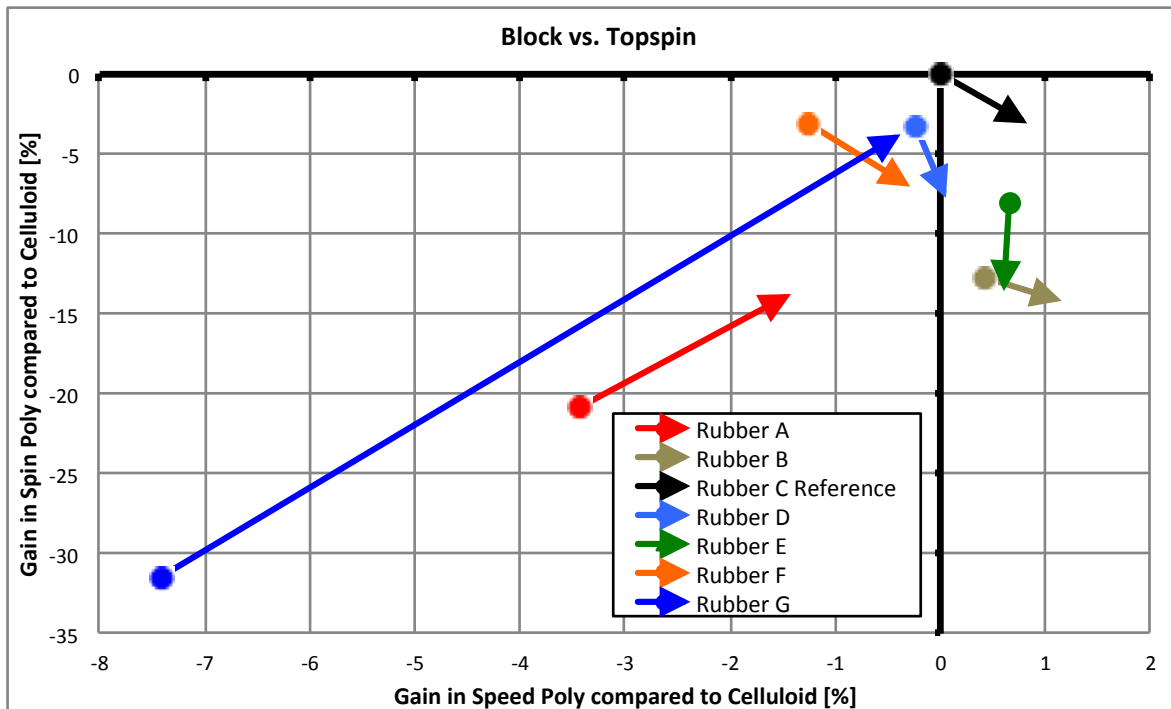
All rubbers gain about same but only in speed (2%) with Poly ball
G gains a lot in speed/spin but produces still less than other rubbers

Topspin against arriving topspin away from table



All rubbers gain a bit in speed (1%) and spin (1-2%)
G gains a lot in speed/spin but produces still less than other rubbers.

Block close to table against arriving topspin



Most rubbers show almost same speed/spin for both types of ball

G gains a lot in speed/spin (7%/25%) with Poly ball compared to Celluloid ball, it produces then the same as other rubbers

A gains in speed/spin (2%/7%) but produces still less than other rubbers

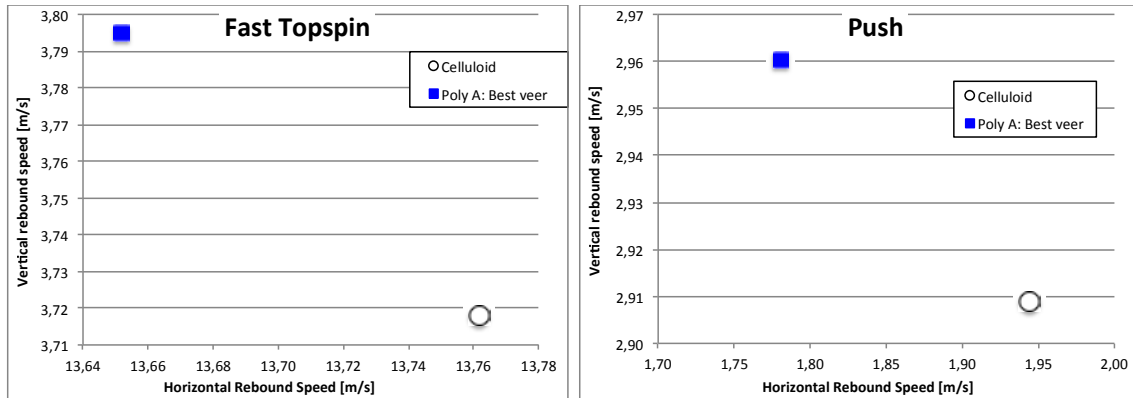
Details: Player's subjective results from tryouts

- The plastic ball seems to be more slowly. Also at full power it doesn't give the dynamic of a celluloid ball.
- The rebound of the ball changed. The plastic ball has got a higher rebound from the table. This is comfortable for the player after the adaption on the behaviour during tryout.
- The sound of the ball changed. Sounds like a defect ball at the beginning but players are able to adapt during one test session.
- The feeling of the ball during the tryout is hard and constant. Control and feeling during the rally are very good.
- Test players expect to get longer rallies. Because of the good feeling and control together with higher rebound it will be easier to avoid mistakes and due to the expected slower speed the time to react will increase.
- With the plastic ball the spin production decreases. Especially after service and at topspin against push the plastic ball seems to have less spin. Due to the higher rebound from the table it is easier to receive.
- Good behaviour at spin rallies due to the hardness of the ball.

Conclusions by the test players

The new plastic ball is good and it is easy to adapt to the sound and the higher rebound. Maybe the defensive players will have an advantage from the overall behaviour.

Additional measurements for rebound on table



Plastic ball shows a reduced horizontal speed but increased vertical speed.

Due to conservation of energy and momentum the higher vertical speed of the plastic ball could be explained by a reduction of spin due to the interaction with the table.

Polyball vs. Celluloid ball: Bounce Irregularities, “Veer” and Shell Thickness

Aim of the study

It was the purpose to evaluate correlation between selection criteria “veer”, shell thickness irregularity and bounce irregularities.

Background

One important quality criterion for ITTF ball approval is veer test. This criterion expresses in some way how close a spinning ball's behaviour is from an ideal hollow sphere. This test **does not** reproduce a performance characteristic as it occurs while ball is used to play table tennis (e.g. trajectory or bounce on racket and on table).

When veer test is applied for a ball constructed of two halves rolling on the seam, the direction of deviation from the centre line may give some idea whether one half is thinner than the other. But since Polyball has no obvious seam the matter has to be rethought to apply veer test for such ball.

Another method that allows to express how close a ball is from an ideal hollow sphere is to measure regularity of shell thickness. This also is not directly a criterion reproducing a typical performance aspect of the ball. But it is easy to imagine that an irregular shell thickness may lead to uncomfortable behaviour of the ball at play (trajectory, bounce on table and impact on racket). Thus by checking shell thickness irregularity a fundamental aspect of ball quality is measured.

This study tries to bridge between the rather static selection criteria and dynamic performance aspects in table tennis.

Results

Veer and shell thickness

- About 30% of the 1000 balls have been tested to be OK for tests on five axes according to ITTF criterion for celluloid balls (not to deviate more than 175mm from centre line for 100cm rolling distance). -> These balls have been sorted as “best” veer class”
- Ultrasonic method works with the Polyball to detect shell thickness. But it is not sufficient to measure on just six points to get appropriate information on the shell thickness irregularity of one ball. But to scan the whole surface is a lot time taking.
- Balls show different irregularity in shell thickness. For some balls variation (max-min) is in the order of 0.04mm (9%), for others it may be up to 0.17mm (36%).
- For a few single balls the thickness distribution has been entirely recorded. For the tested balls there are about 1 or 2 areas where the shell is much thicker and 1 or 2 where the shell is much thinner than the mean value. There is no clear logic how many extremes are found, where they are situated and how distant they are.

Veer and shell thickness

- Findings for rebound on table are more consistent than for rebounds on rubber.
- Veer classes correlate with rebound deviations, in general the “worse” the class the stronger the rebound deviations.
- “Best” veer class shows about same rebound deviations as celluloid.
- To loosen veer criteria would implicate an even more irregular bounce on the table than already with imperfect celluloid ball. For some conditions double the deviations are found.
- Criterion “difference of maximum and minimum shell thickness” also correlates with rebound deviations but correlation is not as consistent as for veer classes.
- Thus veer does **here** the better job than shell thickness variation.
- But shell thickness variation is important anyhow since it is the source for all other performance aspects (e.g. hardness, bounce regularity etc., veer deviations)



Previous measurements at SKZ

At SKZ the following measurements have been executed on the 1000 provided seamless balls

1. Weight: For all 100 pieces
2. Diameter minimum and maximum for 100 pieces
3. Hardness (compression with load of 50N for ball supported by a cone-ring) on 6 points for 100 pieces
4. Rebound (on steel block from height of 305mm) on 6 points for 100 pieces
5. Veer test (100cm, 4 classes) on 5 axes for 1000 pieces
6. Shell Thickness (Ultrasonic device) on 6 points for 300 pieces

Shell thickness measurement



Classic measurement of material thickness is to use a dial gauge equipped with a pin (picture left). The one side of the material is fixed on an even reference plate and the pin points on the other side. Since the ball is a hollow body such classic method cannot be applied on an undamaged ball. But when ball is cracked into parts the method works. When applied to a concave surface the convex side has to be oriented to the reference plate while the concave side is oriented to the pin. The pin forefront has to have a convex shape (picture right) with a radius smaller than the radius of the shell to measure. Further the pin has to be applied with a well defined contact pressure that is big enough to ensure that there is a real contact and on the other hand not too big to avoid material deformation which would falsify the result.



There are new methods to allow measuring of material thickness for hollow bodies without having a reference contact to the inner side. One of these is ultrasonic device (picture right) which is used in industrial context to measure e.g. shell thickness of plastic bottles.

Such device has been used at SKZ to do some measurements on plastic balls (see section “Shell thickness”). To better understand the handling and to achieve additional results the device has been borrowed from SKZ for some days.

Here are some details on the use of the device:

Since the device works with duration of reflection of ultrasonic waves, sonic speed in material should be known or the device may be calibrated by use of reference specimen (made of same material as the bodies that have to be measured).

There is the necessity of a contact fluid to feed sonic wave from the sensor into the material. In the case of table tennis ball fortunately water worked as contact fluid, otherwise a contact gel should have been used which might cause a mess.



The workflow is then:

- Moisten the surface
- Attach sensor tightly and wobble slightly until there is signal.

It takes minimum 2 seconds per value. Thus a quick scanning of the complete surface is impossible. The method may not be applied on soft materials due to needed contact pressure.

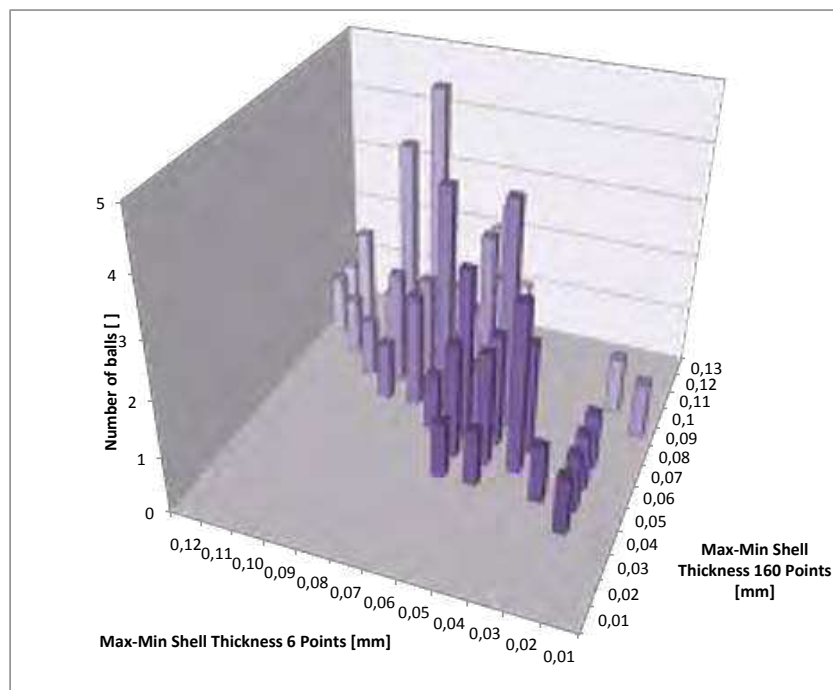
The measurements on 6 points made at SKZ do not give real over all maximum and minimum thickness for each ball as nobody can ensure that the real extremes are found on the 6 chosen points. As this is important for categorisation of balls own measurements have been conducted. Two strategies have been used:

1) Searching of real extremes

Real extremes have been searched by systematically measuring on three circumferences (40 measurements each, maximum and minimum recorded each) and in intermediate areas (another 40 measurements, maximum and minimum recorded).

These measurements have been done on 80 balls, process takes about 5 minutes each. Results have been added to the result table.

Searching real extremes (measurement on 160 points) gives different result for the balls than just measuring on 6 Points as executed at SKZ since with the latter method it is a matter of chance whether a top of a “mountain” or a the bottom of a “valley” is hit by one of the six balls. For the 80 balls that had been measured by both methods this can be shown in a 3D bar chart: x-axis shows result of max-min for measurement on 6 points, y-axis for measurement on 160 points and z-axis is number of balls in this class:



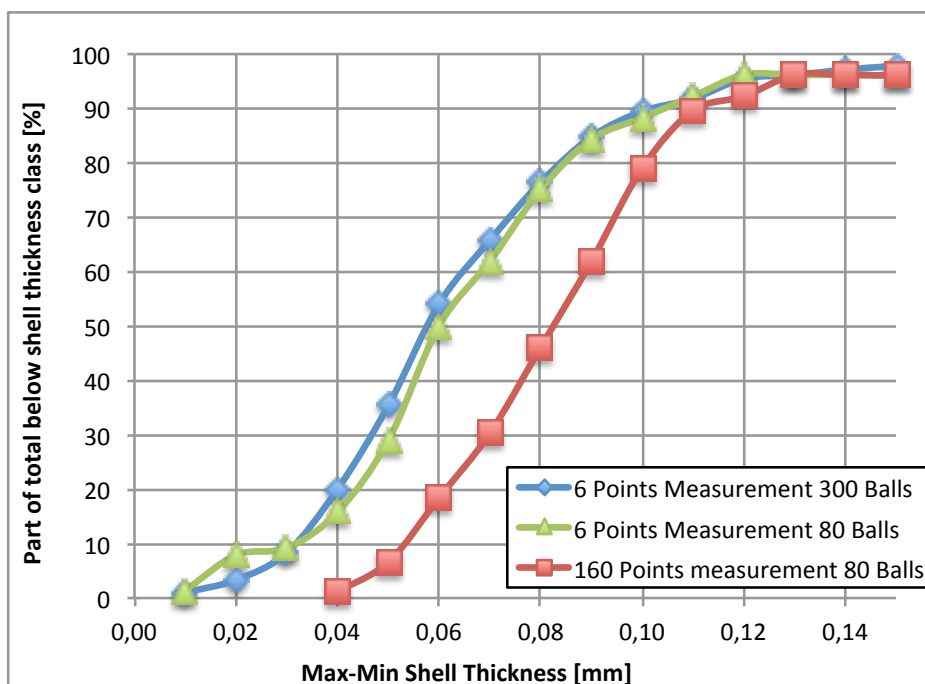
Thus when it is the matter of finding real irregularity in shell thickness for each ball it is not sufficient to measure only on 6 points.

The results of the measurement on 160 points had been used to build two ball classes in shell thickness variation: One class with balls where variation in shell thickness is $\leq 0,08\text{mm}$ and one where variation $\geq 0,09\text{mm}$.

Correlation between finding 6 Points and 160 points measurement.

Even if 6 point measurement is not able to detect the real extremes in shell thickness for one ball, statistically there is an interrelationship between the results for measuring on 6 points and measuring on 160 points. Without entering into statistical theory the obtained data may be exploited to give some idea.

The following graph contains the cumulated histogram of results of max-min measurement for different methods (6 Points and 160 points) and different number of measurements.



Curves for 6 point measurement for 80 balls and 300 balls are almost identical. The curve for 160 points measurement on same 80 balls is shifted for a large section (from 0 to 80% in y axis) to the right. And it seems that the shift is rather linear by a summand of 0.02mm.

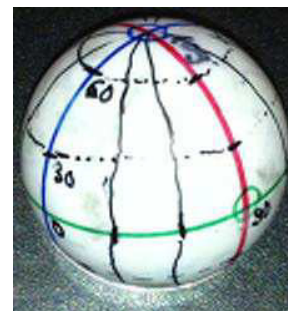
Thus it may be concluded that the **mean** difference between measuring on 6 points and measuring on 160 points is 0.02mm in shell thickness variation. **This statement is not valid for each ball, but it may help to judge on average quality of bigger sets of balls.**

2) Complete scan of balls

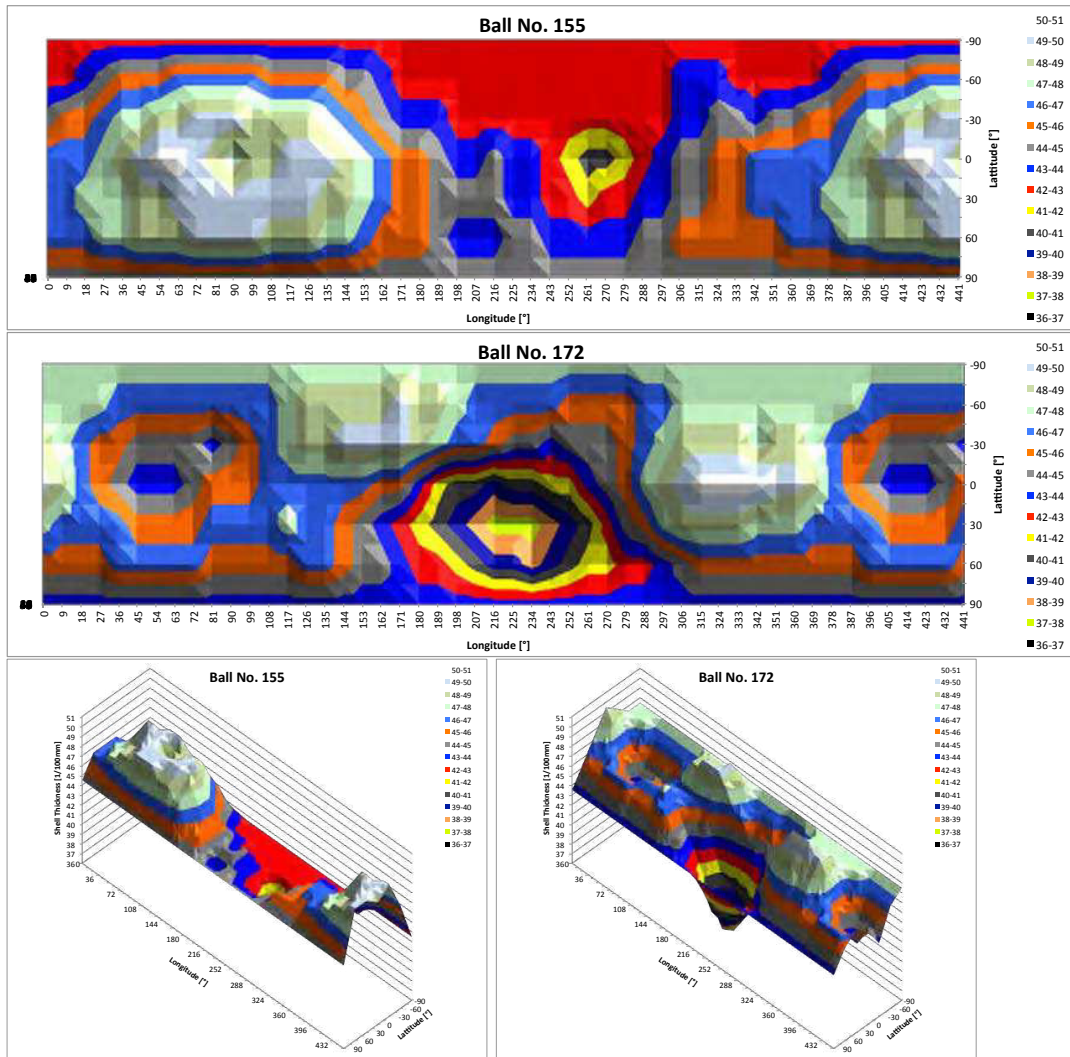
Two balls have been completely scanned with ultrasonic device. Therefore the ball has been equipped with a longitude and latitude coordinate system (picture right) and measurements have been executed according to that while each measurement was recorded in a spreadsheet table. This process takes much longer time, about 60 minutes per ball.

The two balls showed big variation in shell thickness (No. 155 of 0.11mm and 172:0.13mm). In veer both balls have been “bad” (No. 155: x2, o, o, o, o and 172: x2, o, x2, x2, o)

The data of the two balls has been plotted as coloured 2D graph and 3D graphs: Longitude and latitude have been used as x and y-axis in cartesian coordinates. The shell thickness is displayed in colour (or z-axis). Of course this illustration (like in geo-mapping) as a 2D map of a sphere distorts the surface: On top and bottom latitude (+90 and



-90°) from left to right there are all the same values since there is only one measurement for the poles.



But even if pictures are distorted, they tell two things:

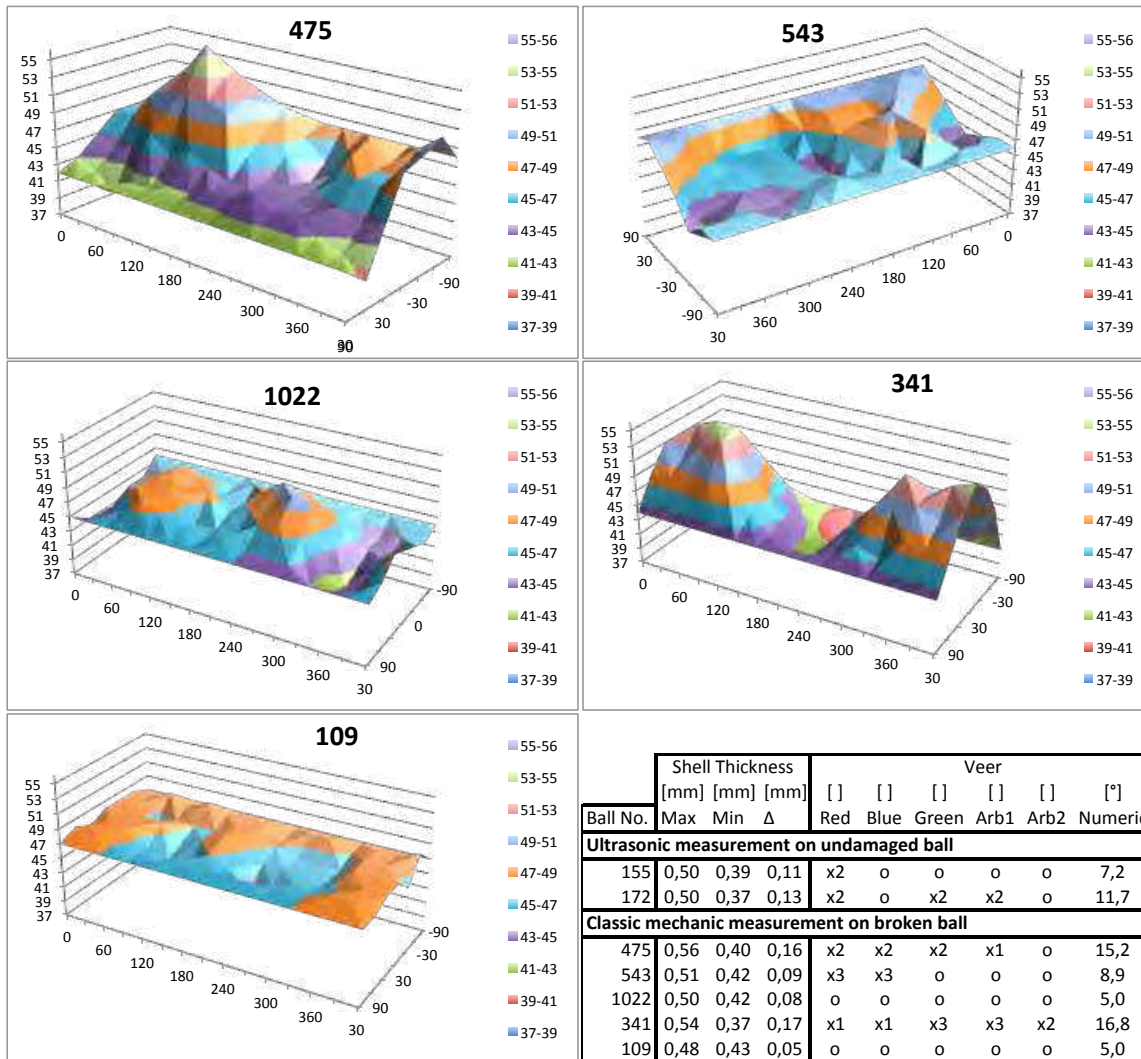
1) The method itself does not give random results, it really measures shell thickness, otherwise there would not be a logic of “mountains” and “valleys” when surface is scanned according to chronological order of coordinates.

2) There are macroscopic clusters of 2-3 “mountains” and “valleys” (thicker/thinner material), which do not follow the same systematics for each ball. This may be a result of the production process when the material congeals from liquid to solid aggregate state.

For celluloid balls there are also thinner and thicker areas, but this always follows the same logic which is caused by its production process (pulling the two halves and the overlapping seam area).

Additional shell thickness scans for cracked balls:

For cracked balls it is possible to measure shell thickness using classic measurement of material thickness (dial gauge equipped with a pin, see chapter “shell thickness measurement”). When measuring a cracked shell it has to be ensured that edge of cracked shell does not touch the side of the stick, otherwise the shell bends and the measurement is falsified. Here are the results of 5 other balls:



The table of veer and shell thickness result gives an idea how veer result and thickness irregularities are produced by the topography of the shell.

Balls 543, 1022 and 109 give veer results rather “OK”. Those three balls have shown almost smooth topography. Ball No. 155 (scanned with ultrasonic device) had only one “bad” veer result x2, the others have been ooooo.

Additional remarks on veer

The recorded mean classes o, x3, x2, and x1 mean: "x1": the ball leaves the table at the side in less than 50cm, for "x2": <75cm and "x3": <100cm and "o": The ball reaches the opposite side of the plate.

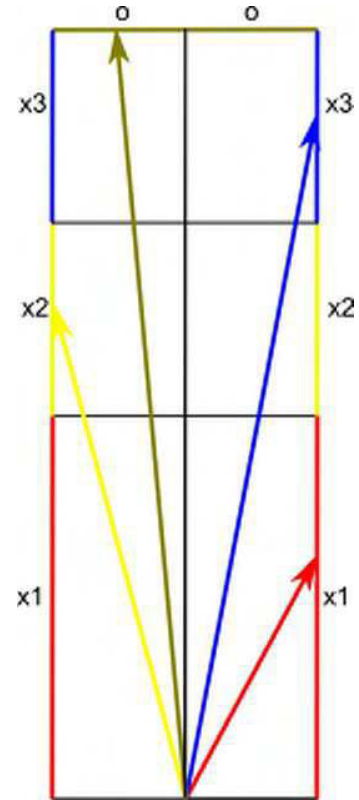
To better exploit the veer data it is helpful to have a single numeric value representing the total result of the five veer tests. The chosen method worked as follows:

Using trigonometry, the above deviation limits have been used to calculate angle limits:

- 1) o-x3 corner: 9.9°
- 2) x3-x2 border: 13.1°
- 3) x2-x3 border: 19.3°
- 4) Estimated limit for biggest deviation in x1 of 25.4° (which is then the same gap as between beginning and end of x2 class).

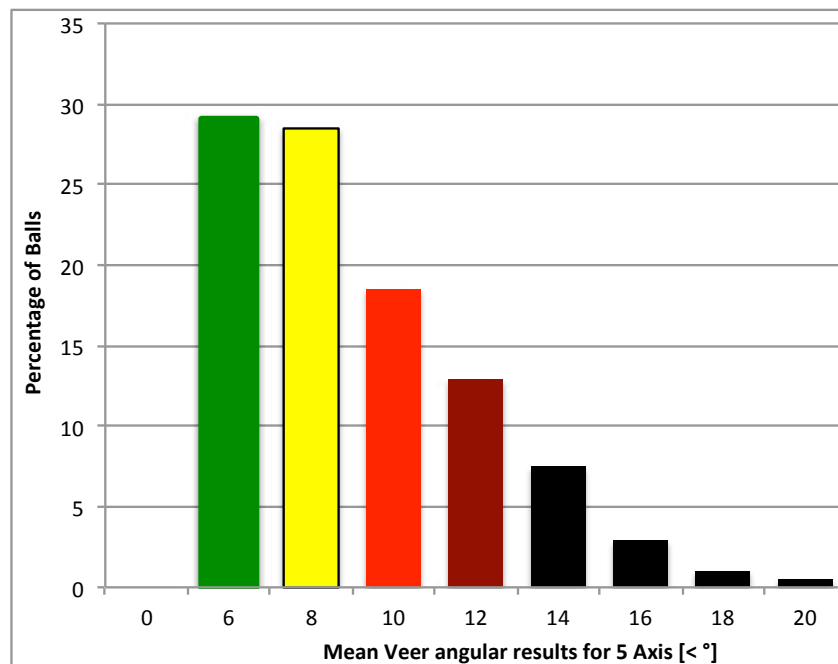
Then each result (e.g. x2) has been taken in calculation as if a ball would have passed exactly between the two limits. Thus:

- 1) o: 5°
- 2) x3: 11.5°
- 3) x2: 16.2°
- 4) x1: 22.4° .



Using these corresponding angle values it was possible to calculate one mean value from the 5 veer results for each ball.

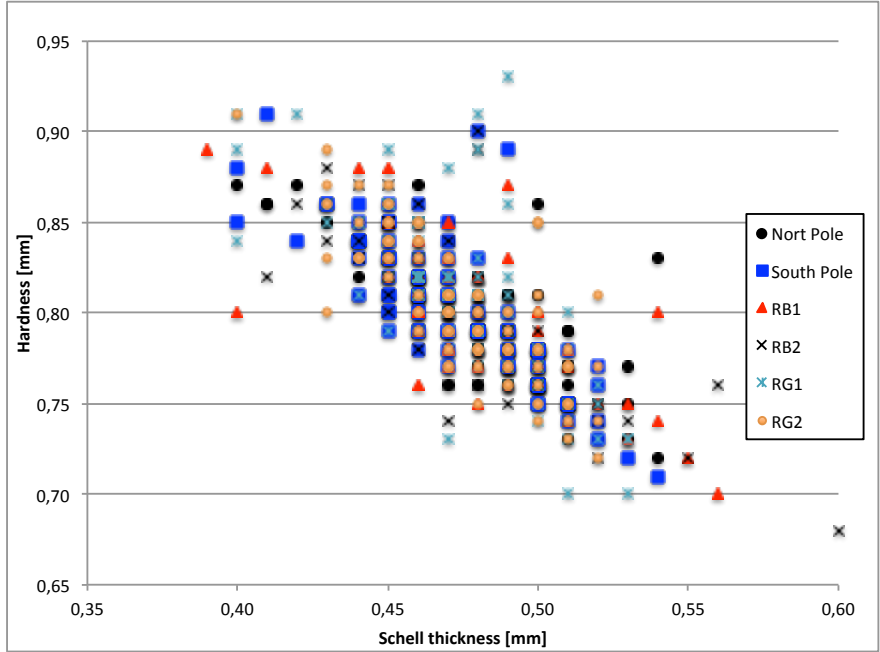
The mean values for the 1000 balls then e.g. can be used to calculate a histogram of the total veer result:



Balls that had a ooooo veer test result for all five tests have a result of 5° thus are found in the graph in column “<6°”. Thus less than 30% of the tested 1000 balls pass veer test when only balls with an ooooo result would be accepted.

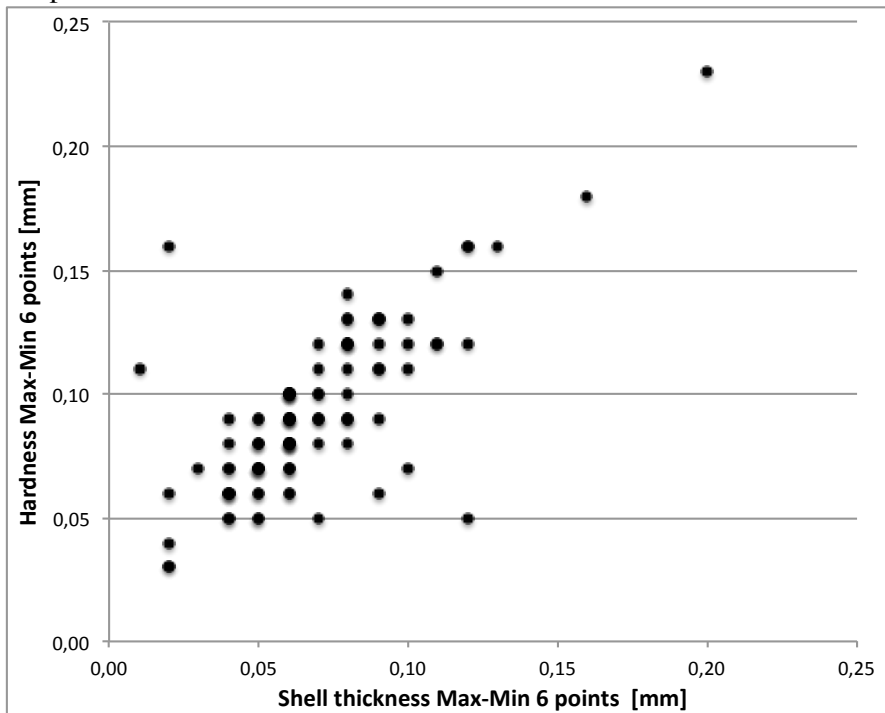
Hardness vs. shell thickness.

Both hardness and shell thickness have been measured on the same six points. There is a correlation found for both which is confirming expectation: If the pole is thinner, then the ball deforms more when test force is applied on the pole.



Thus to limit shell thickness variation will also limit hardness variation of the ball. This can be further illustrated:

For each ball the difference of maximum and minimum both for shell thickness and veer measured on 6 points is calculated. Then also a correlation is found:

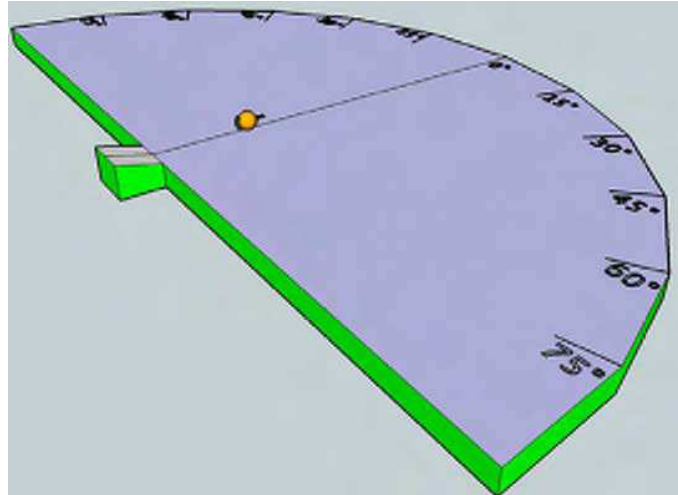


Limiting shell thickness variation will also limit hardness variation which seems logic as long as the ball is produced with homogenous material.

Alternative method to use veer test to generate numeric veer results

When veer test is used for seamless ball it seems necessary that each ball is tested on several axes, since the ball does not come with a defined axis. But for handling the results it would be good to have a numeric veer test result. This would allow calculation of mean values and to do other statistics. The method described above was only designed to get a mean value from the information that was supplied.

A different experimental setup could help here: The rolling area of the test table has the shape of a half circle with radius of 100cm. The edge has a degree scale with the centre line defined as 0°. Rolling ball result should then be recorded in degrees.



Impact experiments

Built ball categories:

For impact experiments it is practical not to work with single balls but to work with lots of 40 pieces. To evaluate influences of irregularities the following classes have been built:

- A) Veer result ooooo (OK on all axes)
- B) Veer with at least 2 results of second “best” class X3, tests on other axes OK
- C) Veer with strongest deviations
- D) Shell thickness (measured on 160 points) $\text{Max-Min} \leq 0.08\text{mm}$
- E) Shell thickness (measured on 160 Points) shell Thickness $\text{Max-Min} \geq 0.09\text{mm}$

Since only for 80 balls real shell thickness variation has been measured it was impossible to build a class with lower variation.

All Polyball categories had been tested against commercial celluloid three star balls taken from market without additional selection.

Consequences of ball-category on rebound on table

To research rebound on table cut samples of competition table tops had been tested with LEKTOR under conditions that fairly correspond at real table tennis strokes.

A big number of impacts (>100) have been executed on each specimen under each condition. Each result represents statistic number of impacts.

Measurement accuracy is an important matter to mind especially when measuring rebound irregularities. Resolution of measurement has to be less than the deviation to research, otherwise even an increase of the number of impacts will not improve meaningfulness of deviation result. For a speed of 20m/s measurement resolution of LEKTOR is better than 0.2° in angle and 0.05m/s in speed.

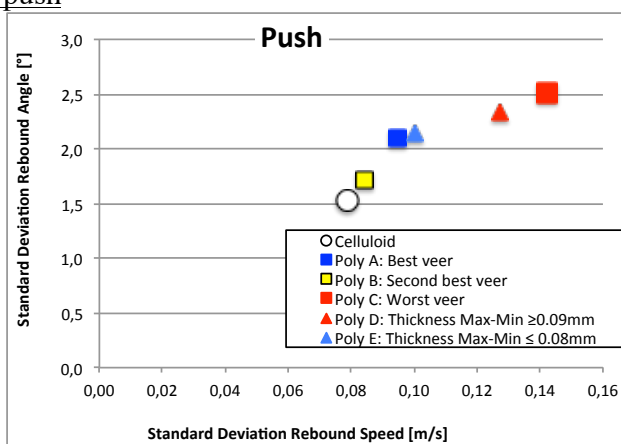
Impact Conditions:

- Rebound of push on table, 240 impacts
- Rebound of counter strike on table, 120 impacts
- Rebound of Topspin on table, 120 impacts

Target Figures:

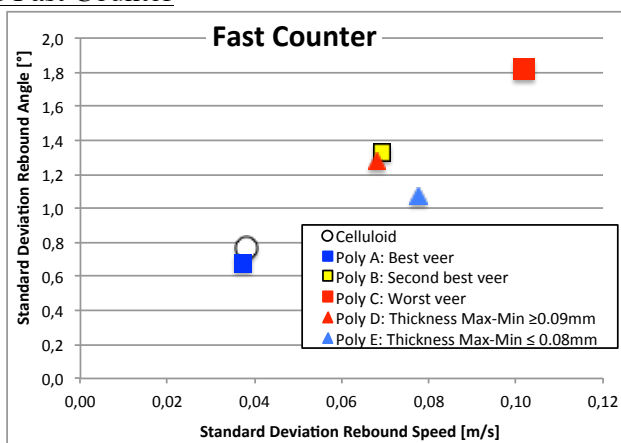
- Standard deviation of rebound angle and speed
- Normal (perpendicular) vs. tangential (horizontal) velocity component
- Standard deviation of rebound angle and contact duration

Rebound on table for push



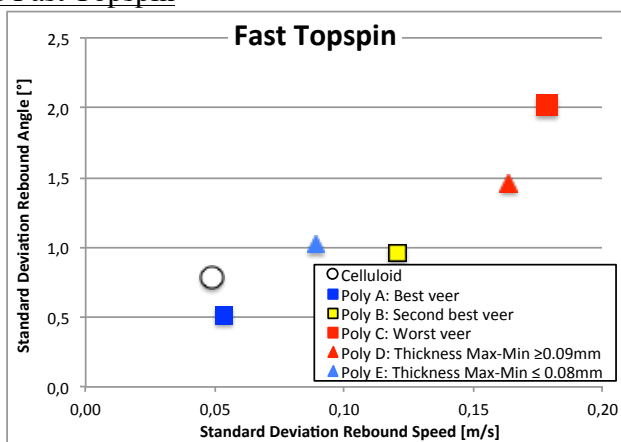
Celluloid balls show least deviations
 Poly B deviates a bit less than Poly A (“best” veer class)
 Poly C and D (“worst” veer and thickness regularity) deviate most

Rebound on Table for Fast Counter



Celluloid balls show same small deviations as Poly A
 Poly B deviates double more (same: Poly B and E)
 Poly C (“worst” veer) deviates most (3 times celluloid)

Rebound on Table for Fast Topspin

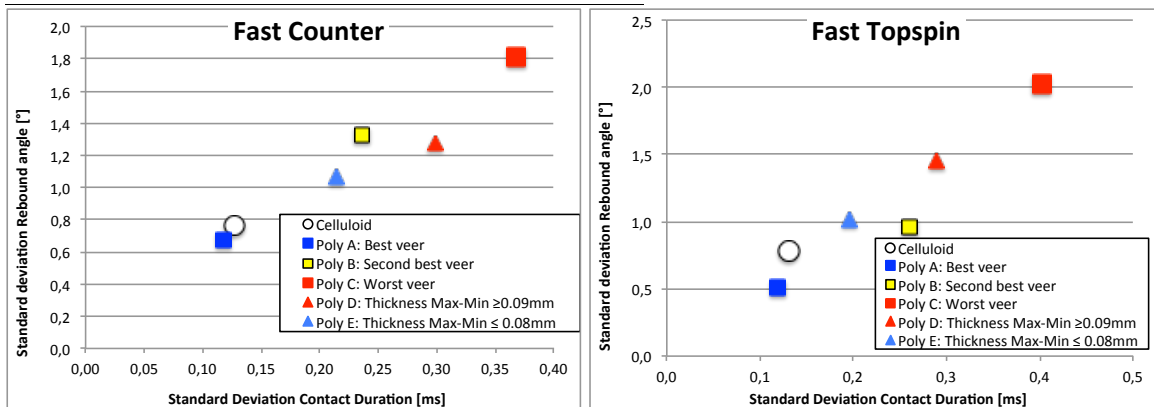


Celluloid balls show about same small deviations as Poly A
 Poly B deviates more in speed (same: Poly E)
 Poly C and D (“worst” veer and thickness variation) deviate most

First conclusions

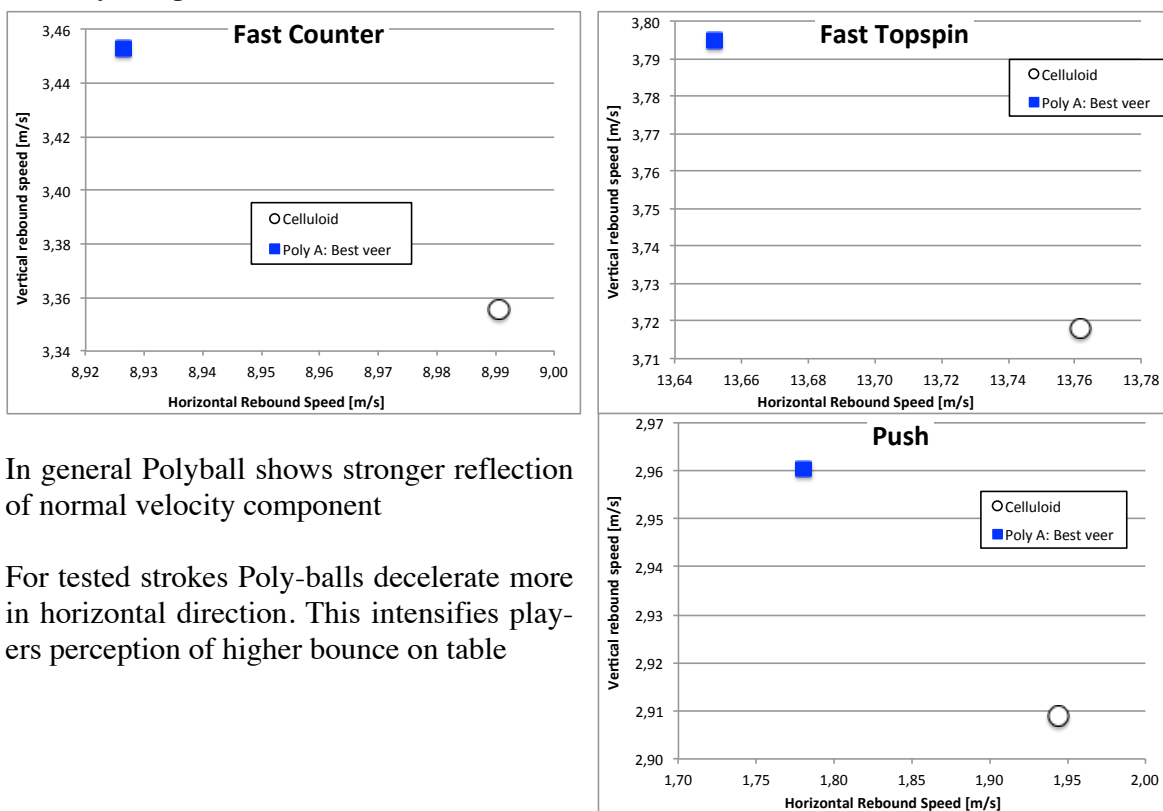
- Veer class correlates with rebound deviations
- “Best” veer class shows about same deviations as celluloid
- To loosen veer criteria would implicate an even more irregular bounce on the table than already with imperfect celluloid ball
- Shell thickness criteria also correlates with rebound deviations

Deviations of contact duration for rebound on table



There is a good correlation between Polyball class and deviation in contact duration
 Only Poly A shows same small deviation in contact duration as celluloid ball

Velocity components for rebound on table



In general Polyball shows stronger reflection of normal velocity component

For tested strokes Poly-balls decelerate more in horizontal direction. This intensifies players perception of higher bounce on table

Consequences of ball-category on rebound on racket

Method:

Several samples of a classic standard type of rubber had been glued on competition racket ply blades.

The 6 different ball categories had been tested with LEKTOR for 5 conditions that correspond at real table tennis strokes.

About 100 impacts have been executed for each ball category and each specimen under each condition. Each result represents statistic number of impacts.

Results have been transferred to table tennis frame of reference to evaluate consequences on table tennis play.

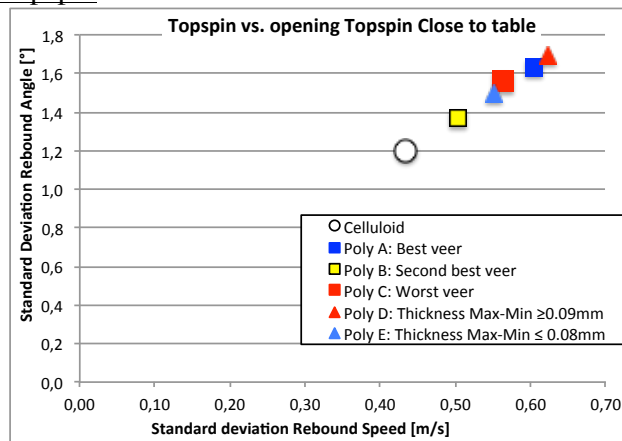
Measurement conditions (short description not going into detail):

- Topspin vs. opening Topspin close to table
- Topspin vs. Block
- Topspin vs. Push
- Topspin vs. Topspin away from table
- Block vs. Topspin

Target Figures:

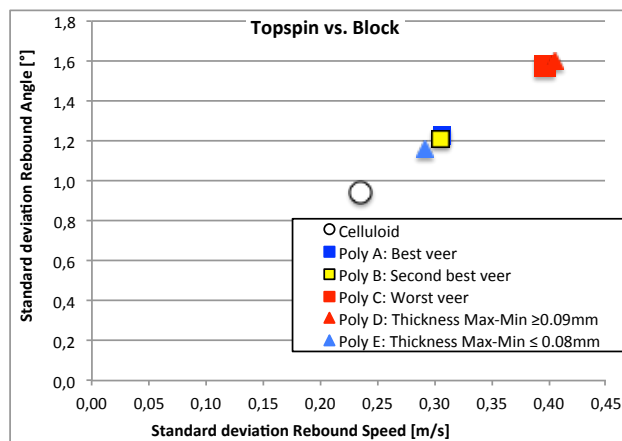
Standard deviation of rebound angle und speed

Topspin vs. opening Topspin



No clear correlations found but celluloid shows clearly least deviations

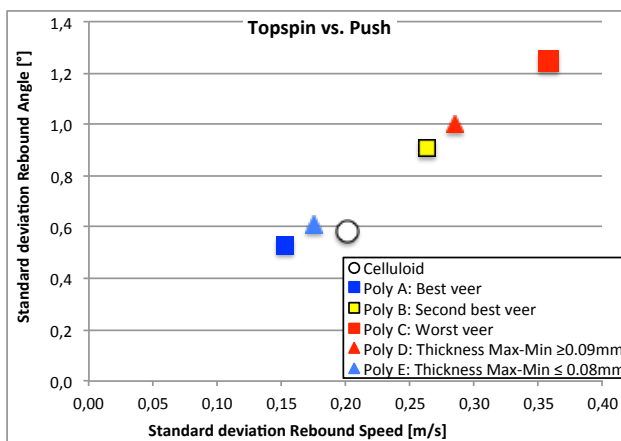
Topspin vs. Block



Here celluloid shows clearly least deviations

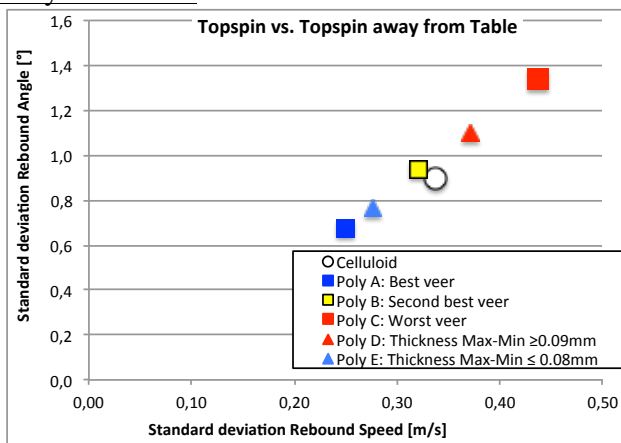
Poly A, B and E show intermediate deviations, C and D “worst”.

Topspin vs. Push



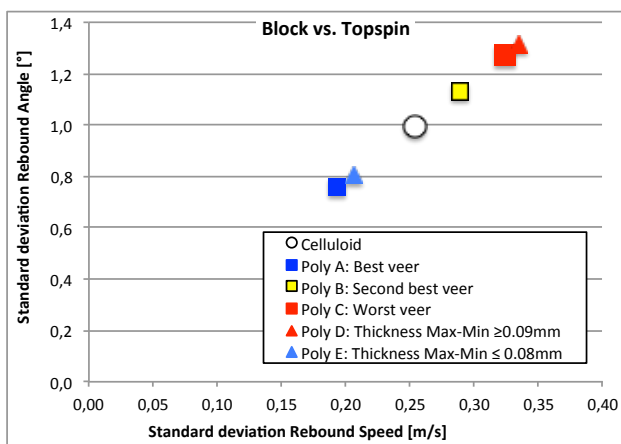
Here celluloid and “best” veer classes about the same
Poly B is clearly “worse” than Poly A and E.

Topspin vs. Topspin away from table



Here “best” Poly-balls show least deviations
Poly B “worse” than Poly A and E but same deviations as celluloid

Block vs. Topspin



Poly-balls class A and E “best” and “better” than celluloid
Poly-Ball class B then clearly “worse”

Conclusions for rebound on rubbers:

- Again veer classes correlate with rebound deviations but correlations are not as clear as for rebound on table. It seems that consequences of ball qualities on rebound deviations are “damped” due to more complex impact effects on rubber compared to table.
- “Best” veer class shows mostly about same deviations as celluloid, they are sometimes slightly “better” and sometimes slightly “worse”
- Again result mostly shows that to loosen veer criteria (to allow category B) would implicate an even more irregular bounce on the racket than already with imperfect celluloid ball.
- Shell thickness criteria also correlates with rebound deviations

Final comments: Veer vs. Shell Thickness

Shell thickness measurement (for a ball made of homogenous material) theoretically gives more meaningful information on ball quality than veer. But, as it is insufficient to measure just 6 points to decide upon total irregularity of ball it is necessary to do a complete scan of the ball. But then process is a lot time taking.

Considering that veer test gave in these test mostly even better correlation on rebound irregularity, out of practical reason veer seems to be the better method and may be used in the actual defined setup with the five axes.

There is a discussion that test on five axis in arbitrary definition is in disfavour for the Polyball compared to the test for the celluloid ball where the ball rolls on the seam. But the opposite is also imaginable: If the two halves of celluloid ball are differently thick the deviation from the centre line in veer test may be less when the ball rolls on another axis than the seam axis since the latter is the worst case in such scenario.

But all this is only speculation, the only way to end such discussion is to do experiments: Marking three star celluloid balls the same arbitrary way as the Polyballs and doing veer test on five axis.

Even if veer test works “best” it has to be considered that it is an empiric test that does NOT directly evaluate properties of relevance for table tennis. It is difficult to ascribe veer test to a scientifically describable measurand as e.g. imbalance. There is no simple theoretical model that can express how veer deviation depends on the ball being away from ideal shape.

Even if veer worked **here** to determine whether **these** Polyballs may have a regular bounce, to claim a veer ooooo result is a very indirect demand for a supplier.

A better guideline would be a limit in shell thickness variation, e.g. that it should not vary more than a certain limit. With analysis of actual data a first suggestion is +/- 7%, which is not a small tolerance: For these balls it would mean limits of 0.44 to 0.51mm. With the information we have got so far these tolerances are a quite similar quality demand as the veer ooooo.

Further thoughts have to be spent on shell thickness since the difference of maximum and minimum shell thickness does not need to be a good parameter to express shell thickness irregularity:

- Imagine a ball that is produced seamless but one half has 0.52mm shell thickness and the other 0.42mm (thus a max-min of 0.1mm). This one will have a very egg-like behaviour.
- On the other hand imagine a second ball that has all over a shell thickness of 0.47mm except one spot with 0.57 this one will also have a max-min of 0.1mm. This ball will have much less egg like behaviour.
- And then imagine a third ball that has lots of “mountains” of 0.52mm and “valleys” of 0.42mm equally distributed all over the ball. Such ball will have a quite regular behaviour but also will have a max-min of 0.1mm

When shell thickness is used as selection criteria more sophisticated calculations have to be applied. There must be also a consideration on how the thickness is propagated throughout the material. One method could be for example:

“According to arbitrarily chosen coordinate system values are grouped in 6 ball halves: Left and right of red line, left and right of blue line.... Mean value of opposing halves should not differ more than 1% of total mean value”.

Maybe there is not enough information to set up decisive shell thickness tolerance limits in T3 so far. But it is recommendable to put limits in as advisory for future developments of balls. And the range should be given in relative thickness (per cent of mean values) and not in absolute values, since absolute values are dependent on material density.

The topic shell thickness is maybe worth to better research by scanning a much bigger number of balls and evaluating topology using state of the art statistic methods. This could be subject of a student research project.

Ball durability

It was expected that it is possible to collect durability data as side results when series are executed. But ball breaking was so irregular that a clear result was not yet received. Thus so far we have no clear information whether Poly-ball breaks earlier or later than celluloid ball.

But there seems to be a big variation, some single balls broke very early, maybe less than half of lifetime of celluloid for similar tests, but others seemed to last even longer than celluloid. But this is so far only subjective information.



Crack has different shape than known from celluloid ball (there crack starts always with a small crack perpendicular to seem, and it takes some impacts for the crack to grow). Poly-ball starts with one crack no matter where and it takes only a few impacts until the crack grows to some cm length in a more or less organic line.

It will be researched if the crack line has something to do with the “Valley/Mountain” structure of the shell.

To better research durability aspects there was a first trial:

For a set of 40 balls a special measurement series has been executed to count number of impacts until balls break. But choice of condition was not good: even after 4000 impacts and 2 hours of testing only 3 of 40 balls have been broken. Thus series has been interrupted.

Such experiment will be repeated with higher intensity both for celluloid and Polyball to get better feeling on durability in near future.

Appendix: First report from September 26th 2012

Seamless Polyballs DHS

First overview on measured data for lot of 1000, corrected version regarding veer B

K. Tiefenbacher, September 26th 2012

Task

One big theme of examining the ball's impact is to evaluate consequence of irregularity of balls on bounce to help to set limits for ITTF approval of seamless Polyballs in a way to avoid bad influences on table tennis sports.

Before sorting the balls into classes it has to be evaluated which of the measured aspects gives the best criteria for a quality ranking of the balls.

Results and consequences

The existing data gave no good correlation between – as reasonable assumed – quality criteria “bounce regularity”, “veer” and “shell thickness regularity”.

But there is some correlation found between pole thickness difference and veer result while rolling on the corresponding axis.

Shell thickness has been measured on 6 points according to an arbitrarily defined Cartesian coordinate system. It seems reasonable to evaluate whether it is possible with the ultrasonic device to quickly find the real maximum and minimum shell thickness of the ball.

If possible, for each ball max and min should be added to the data set of the first 300 balls where shell thickness already has been measured on six points. Analysis of this data will help

- to see whether it is necessary to determine max and min shell thickness in future
- to decide upon the classification of the balls in quality groups for impact tests

Further it might make sense to counter check ultrasonic device by measuring few balls (also celluloid ball), then cutting them and measuring thickness with mechanical device on same points.

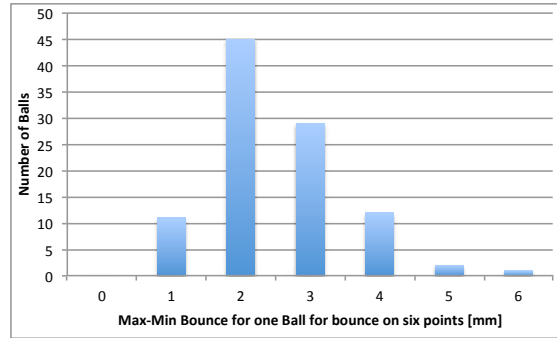
If this additional analysis will not give clarification of best quality criteria balls will be classified according to two systems: A veer based system thickness and irregularity based system.

Details of first overview on quality criteria

Bounce

100 Balls had been measured at SKZ according to T3 on the six points. Mean bounce was 257mm (mean of lowest bouncing ball was 255mm and of highest bouncing ball 259mm).

Bounce on six different points for each ball was quite regular, there was a maximum difference of 6mm found for the six bounces of the balls:



But this may not mean that bounce of the new ball will be the same regular for table tennis play: Neglecting drag force, bounce height of 30.5cm corresponds at an impact velocity of 1.73m/s. In typical table tennis strokes relative speeds between racket and ball are found to be 27m/s which is 15 times bigger than at bounce test.

Higher impact speeds will cause much higher impact forces and ball deformations. Then shell thickness irregularities may have much bigger influence on bounce regularity.

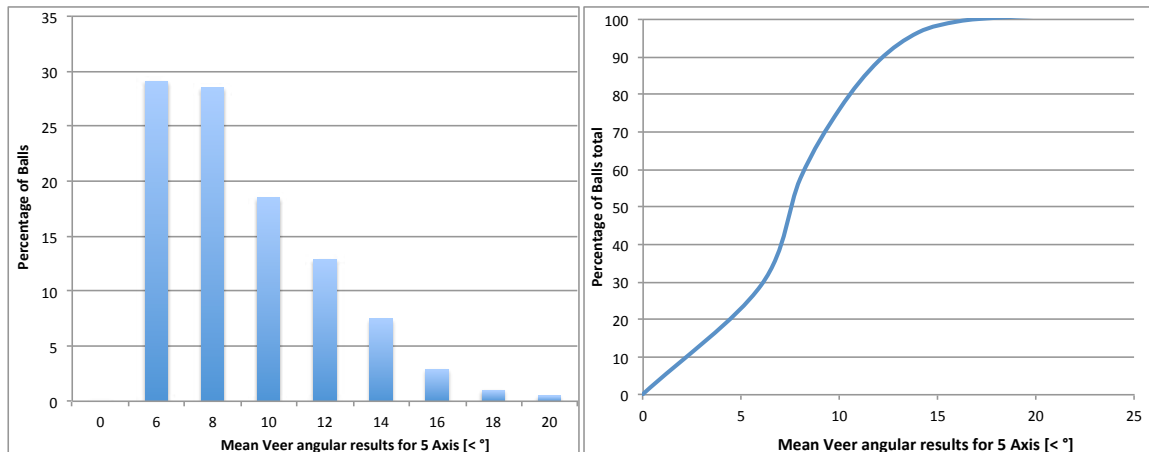
This will be the subject to research with impact experiments and to compare irregularities of rebound of Poly-balls from different quality classes with those of approved celluloid balls.

Veer

All 1000 balls have been measured with ITTF veer test on three perpendicular axis and on two other arbitrarily chosen axis. Additionally to the standard test not only deviation from the centre lines of standard 175mm (“o”) had been recorded but also three other classes:

“x1”: the ball leaves the table at the side in less than 50cm, “x2”: <75cm and “x3”: <100cm. There are several ways to analyse this data.

To numerically exploit the data spontaneously the above deviation limits in 100cm distance have been used to calculate angle limits: 9.9°, 13.1°, 19.3° and an estimated limit for biggest deviation of 25.4°. Then each result (e.g. x2) has been recalculated as if a ball would have passed exactly between the two limits. Thus o: 5°, x2: 11.5°, x2: 16.2° and x3: 22.4°. This then allowed to calculate mean values for the five results of the veer test.

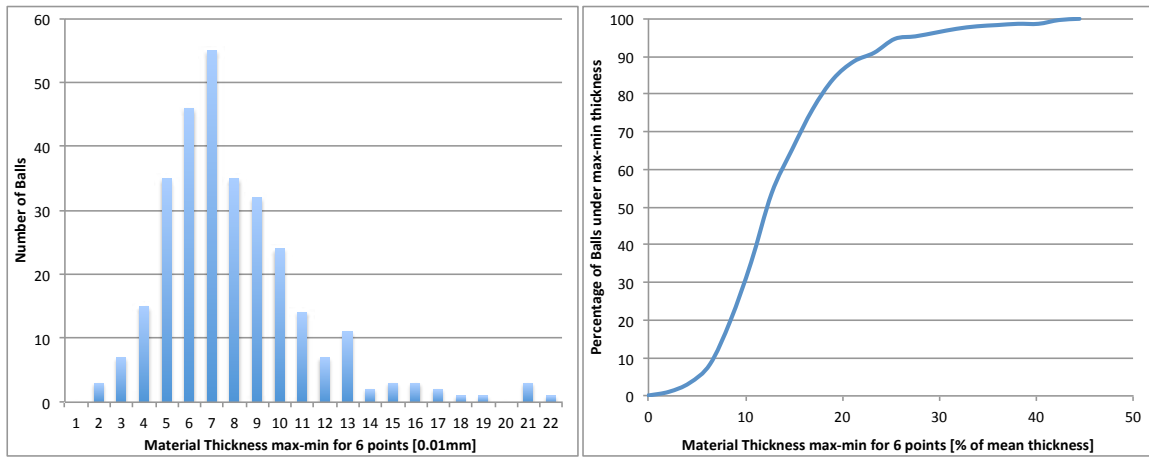


Considering that the limit of 10° corresponds at the 175mm criteria this calculation leads to a percentage of “good” balls of 30%. But this calculation is not scientifically and statistically correct, it was just done to get an idea and to illustrate correlations numerically (see below).

Shell thickness

SKZ measured for 300 balls shell thickness with ultrasonic device on six points each. Mean shell thickness for the six points was found for each ball to be very well defined 0.47mm, the maximum mean value was 0.50mm and the minimum 0.45mm.

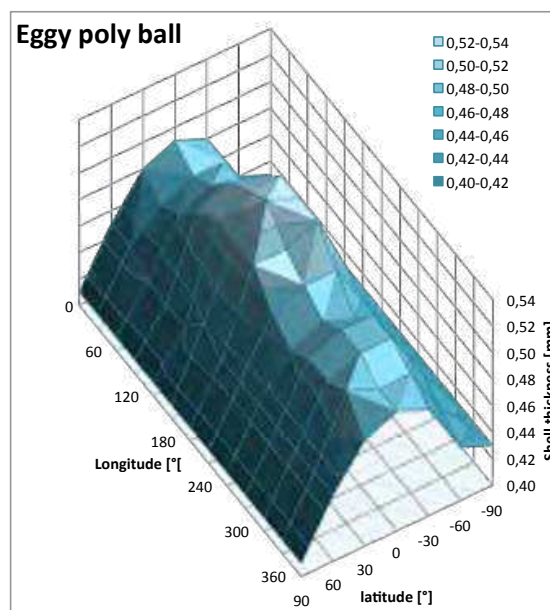
When the range of thickness for each ball (max-min for the six points) is observed bigger differences between balls are found. Histogram figures show the following distribution:



The left graph shows on x-axis max-min in 0.01mm and the right graph shows max-min in relation to the mean material thickness.

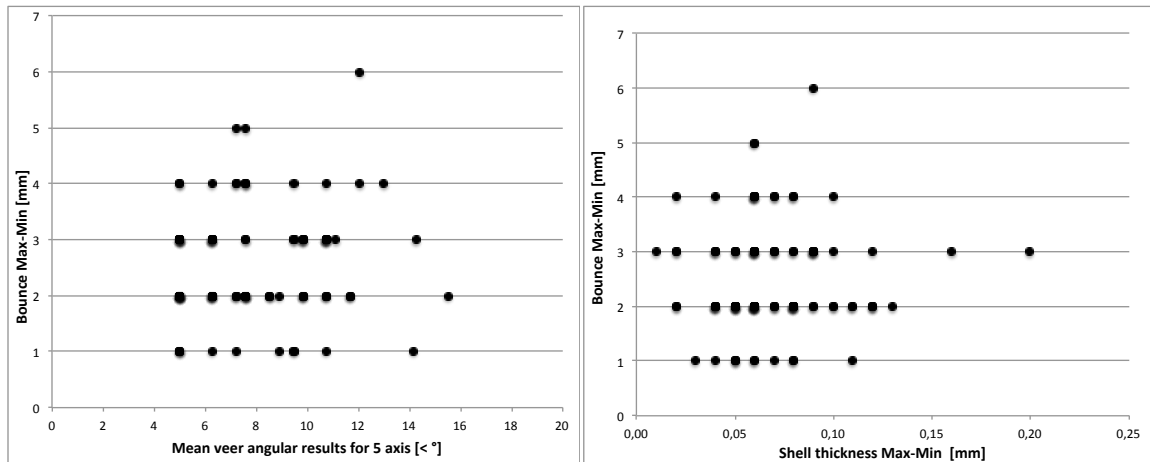
There are balls with only max-min of 0.01mm but also balls with 0.2 mm (which is more than 40% of the mean thickness). Considering that thickness is determined only for six points it is easy to imagine that the over all max-min will be found even bigger.

Previous samples of the seamless Polyballs had been marked with a more detailed coordinate system, had been cut-off and material thickness had been measured with a mechanical pin device on 62 points according to the coordinate system. This allows to figure the material thickness in a 3D graph while z-axis is thickness, x is longitude and y is latitude. The below graph is from a ball that showed an egg like behaviour at twisting and the coordinate system had been chosen according to an equator shadow that had been visible in strong counter-light:



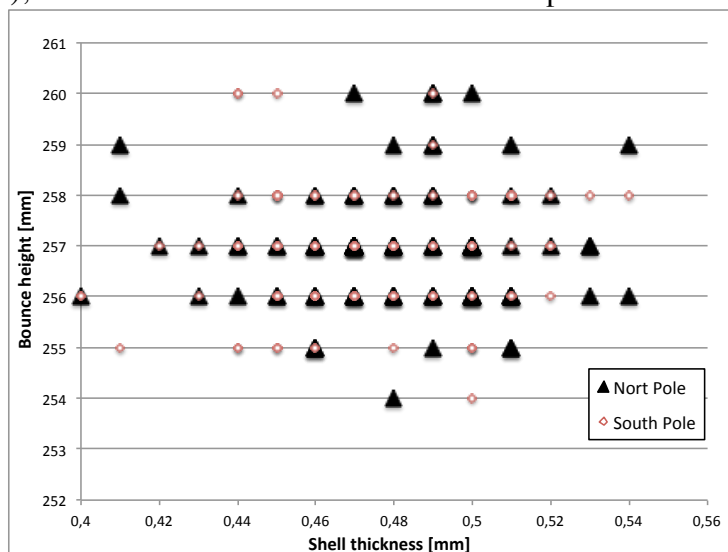
Correlations, a first trial

Bounce vs. veer and bounce vs. shell thickness max-min



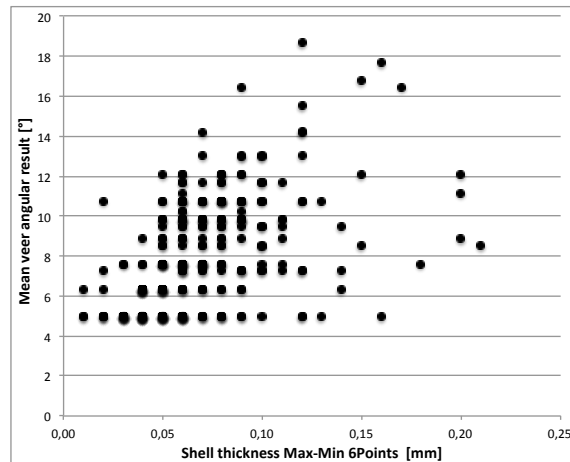
Max-min of bounce does not show correlation with calculated veer angle result and not with max-min of the ball's shell thickness. But as outlined before bounce test according to T3 is far away from the dynamic conditions of table tennis play.

It is also possible to draw a graph bounce height vs. shell thickness for singular bounces, but this also does not show any correlation that might be assumed (e.g. the thicker the material the higher the bounce), here comes the draw for north and south pole bounces:



Veer vs. shell thickness irregularity

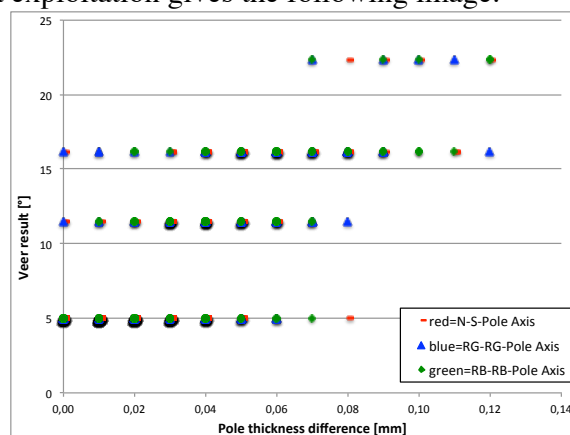
First look on mean angular veer result vs. irregularities in shell thickness (max-min of six points) also does not show a strong correlation. Even balls with relatively big difference in shell thickness may roll straight. Inversely there is some slight tendency: balls with big mean veer value are more found for balls with big difference in shell thickness.



A further way to evaluate influence of varying thickness on veer result which has a physical justification is to calculate the difference between two poles of an axis and to draw a graph of the veer result (four categories) according to the corresponding axis: e.g. north pole and south pole define the axis for rolling on the red axis and so on.

If the two poles are different in material thickness there is a difference in weight of the poles. If this defines the general weight difference between the two sides of the ball according to that axis, the ball should deviate to the heavier pole direction.

The corresponding data exploitation gives the following image:



And here there seems to be some clear correlation: Rolls for a veer result in the lowest deviation class are the balls where the difference in pole thickness is the shortest. The rolls with deviations according to the <50cm class are those with bigger difference in Pole thickness left and right.

The correlation is not very strong, thus those big deviations cannot be easily explained simply by a difference in the according pole thicknesses. Maybe these big deviations are caused by thicker regions on the balls, which have not been detected when only the six points had been measured.

This finding calls for additional trials to really find maximum and minimum material thickness.