

# IAAF 世界リレー2019 横浜大会

2019年5月11日（土）～ 5月12日（日）

横浜国際総合競技場

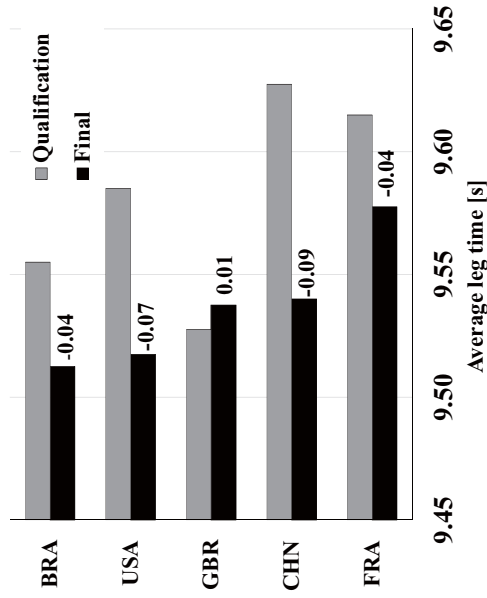


# IAAF 世界リレー2019 横浜大会 男子 4×100mR

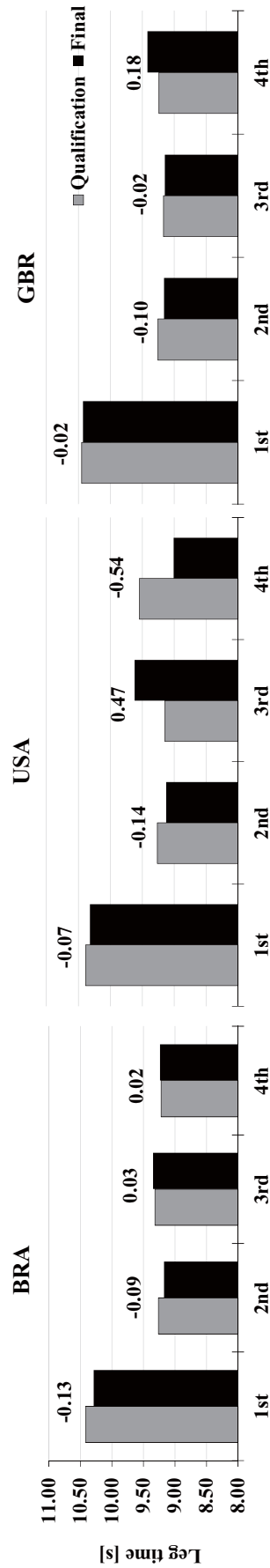
**Table1 Leg times of top3 teams in final and each qualification .**

Position	Heat	Lane	Team	FinishTime	Leg Times [s]				Ave.
					1st	2nd	3rd	4th	
1	-	7	BRA	38.05	10.29	9.17	9.35	9.24	9.51
2	-	5	USA	38.07	10.32	9.13	9.62	9.01	9.52
3	-	4	GBR	38.15	10.43	9.16	9.15	9.42	9.54
4	-	8	CHN	38.16	10.22	9.13	9.36	9.46	9.54
5	-	9	FRA	38.31	10.51	9.16	9.23	9.41	9.58
1	1	3	GBR	38.11	10.45	9.26	9.17	9.24	9.53
2	1	1	BRA	38.22	10.42	9.26	9.32	9.22	9.56
3	1	7	JAM	38.51	10.51	9.15	9.41	9.44	9.63
1	2	4	ITA	38.29	10.65	8.99	9.46	9.18	9.57
2	2	2	FRA	38.46	10.35	9.38	9.30	9.43	9.62
3	2	9	TUR	38.47	10.53	9.20	9.75	8.99	9.62
1	3	4	USA	38.34	10.39	9.26	9.15	9.54	9.59
2	3	3	CHN	38.51	10.37	9.16	9.04	9.93	9.63
3	3	9	CAN	38.76	10.44	9.96	9.28	9.08	9.69

Leg time, 100-meters time subjected to each leg, from the starting signal or their entrance until the finish or the next leg entrance.



**Figure 1 Progress in Average Leg Time from qualification to final.**



**Figure2 Progress in each leg time of top 3 teams in final**

# IAAF 世界リレー2019 横浜大会 男子 4×100mR

Table2 Take-Over-Zone times of top3 teams in final and each qualification .

Position	Heat	Lane	Team	FinishTime	30m Take-Over Zone Times [s]			Ave.
					1st to 2nd	2nd to 3rd	3rd to 4th	
1	-	7	BRA	38.05	2.77	2.79	2.84	2.80
2	-	5	USA	38.07	2.80	2.93	2.94	2.89
3	-	4	GBR	38.15	2.87	2.86	2.85	2.86
4	-	8	CHN	38.16	2.77	2.84	2.88	2.83
5	-	9	FRA	38.31	2.85	2.90	2.84	2.86
1	1	3	GBR	38.11	2.84	2.88	2.85	2.86
2	1	1	BRA	38.22	2.87	2.77	2.82	2.82
3	1	7	JAM	38.51	2.89	2.88	2.87	2.88
1	2	4	ITA	38.29	2.89	2.82	2.92	2.88
2	2	2	FRA	38.46	2.77	2.81	2.93	2.83
3	2	9	TUR	38.47	2.93	2.86	2.95	2.91
1	3	4	USA	38.34	2.82	2.91	2.88	2.87
2	3	3	CHN	38.51	2.86	2.79	2.92	2.86
3	3	9	CAN	38.76	2.94	3.03	2.91	2.96

Take-Over-Zone time, Elapsed time from the former leg entrance into the zone until the next leg exit.

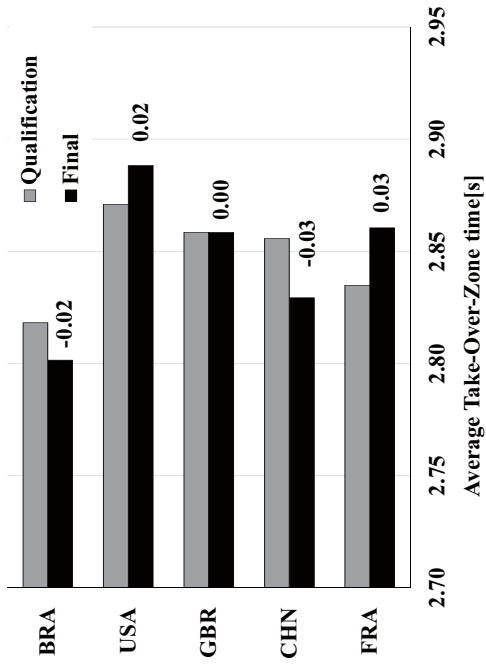


Figure3 Progress in Average Take-Over-Zone Time from qualification to final.

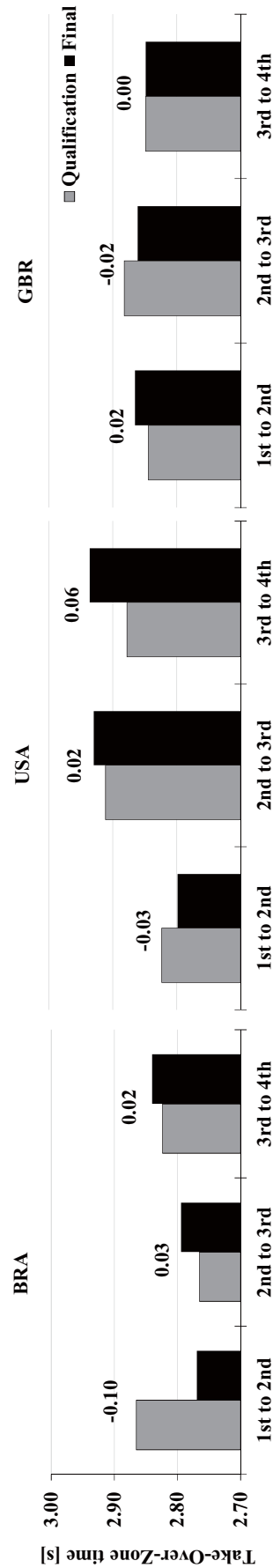


Figure4 Progress in each Take-Over-Zone Time of top 3 teams in final

# IAAF 世界リレー2019 横浜大会 男子 4×100mR

Table3 100-meters personal best of each leg in comparison with their leg times.

Team	100m time					Round1					Ave.
	100m PB	1st	2nd	3rd	4th	1st	2nd	3rd	4th	Ave.	
BRA	10.08	10.11	10.08	10.10	10.02	10.08	10.11	10.10	10.02	10.02	10.08
USA	9.86	10.29	9.17	9.35	9.24	9.51	10.42	9.26	9.22	9.22	9.56
GBR	9.85	9.85	9.74	9.92	9.86	9.84	9.85	9.74	9.93	9.93	9.86
CHN	10.32	10.32	9.13	9.62	9.01	9.52	10.39	9.26	9.54	9.54	9.59
FRA	10.08	9.95	10.08	9.97	9.99	10.00	9.95	10.08	9.99	9.99	10.00
	10.43	10.43	9.16	9.15	9.42	9.54	10.45	9.26	9.24	9.24	9.53
	10.17	10.17	9.97	9.91	10.34	10.10	10.17	9.97	10.34	10.34	10.10
	10.22	10.22	9.13	9.36	9.46	9.54	10.37	9.16	9.93	9.93	9.63
	10.12	10.12	9.86	10.16	10.13	10.07	10.13	9.86	10.12	10.12	10.07
	10.51	10.51	9.16	9.23	9.41	9.58	10.35	9.38	9.43	9.43	9.62

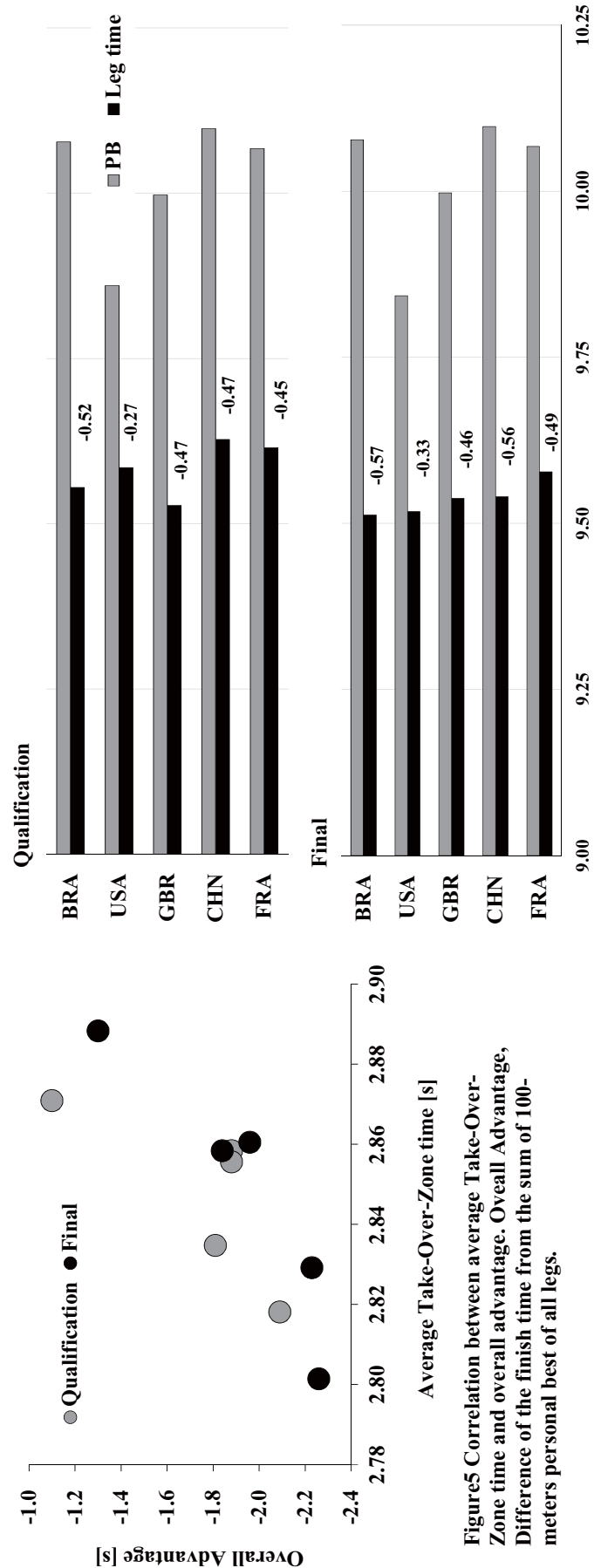


Figure5 Correlation between average Take-Over-Zone time and overall advantage. Overall Advantage, Difference of the finish time from the sum of 100-meters personal best of all legs.

Figure6 Comparison of average 100-meters personal best with average leg time in qualification and final.

# IAAF 世界リレー2019 横浜大会 女子 4×100mR

Table1 Leg times of top3 teams in final and each qualification .

Position	Heat	Lane	Team	FinishTime	Leg Times [s]				Ave.
					1st	2nd	3rd	4th	
1	-	5	USA	43.27	10.59	10.75	10.74	10.91	10.91
2	-	8	JAM	43.29	10.81	10.71	10.45	10.93	10.93
3	-	7	GER	43.68	11.72	10.91	11.08	11.05	11.05
4	-	6	BRA	43.75	11.96	10.73	10.88	11.09	11.09
5	-	2	ITA	44.29	12.10	10.69	11.03	11.18	11.18
1	1	7	USA	42.51	11.48	10.52	10.26	10.70	10.70
2	1	8	BRA	43.07	11.86	10.51	10.13	10.92	10.92
3	1	9	TTO	43.67	12.25	10.46	10.72	11.07	11.07
1	2	7	DEN	43.9	11.85	10.59	11.03	11.09	11.09
2	2	5	GHA	44.12	12.11	11.23	10.84	11.21	11.21
3	2	6	THA	44.24	12.09	10.52	11.28	11.18	11.18
1	3	2	GER	43.03	11.71	10.60	10.41	10.85	10.85
2	3	7	JAM	43.08	11.86	10.71	10.64	10.88	10.88
3	3	9	AUS	43.19	11.66	10.72	10.75	10.93	10.93

Leg time, 100-meters time subjected to each leg, from the starting signal or their entrance until the finish or the next leg entrance.

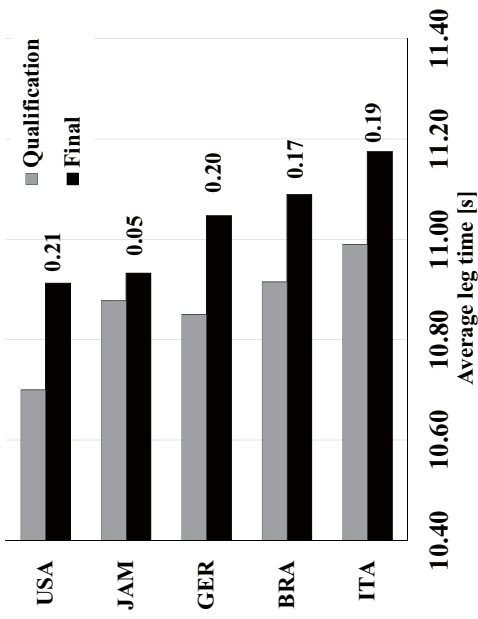


Figure 1 Progress in Average Leg Time from qualification to final.

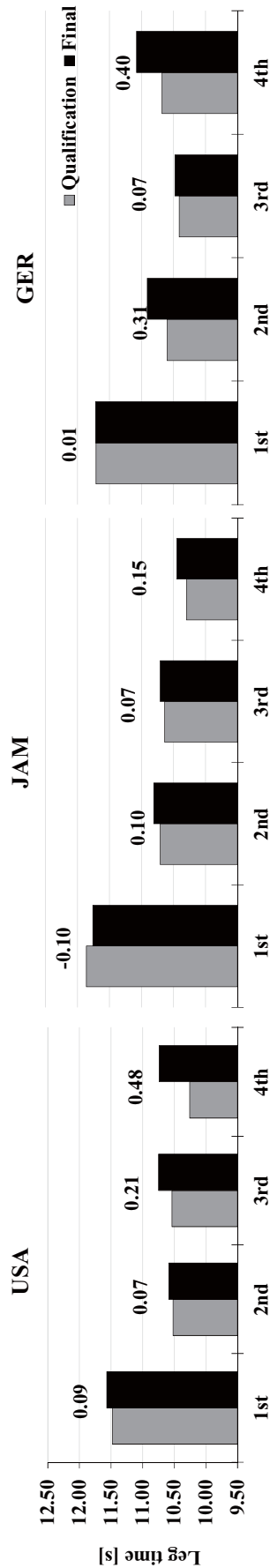


Figure2 Progress in each leg time of top 3 teams in final

# IAAF 世界リレー2019 横浜大会 女子 4×100mR

Table2 Take-Over-Zone times of top3 teams in final and each qualification .

Position	Heat	Lane	Team	FinishTime	30m Take-Over-Zone Times [s]				Ave.
					1st to 2nd	2nd to 3rd	3rd to 4th	3.30	
1	-	5	USA	43.27	3.22	3.34	3.35	3.30	3.30
2	-	8	JAM	43.29	3.20	3.34	3.27	3.27	3.27
3	-	7	GER	43.68	3.08	3.39	3.34	3.27	3.27
4	-	6	BRA	43.75	3.28	3.26	3.31	3.28	3.28
5	-	2	ITA	44.29	3.27	3.14	3.44	3.28	3.28
1	1	7	USA	42.51	3.17	3.38	3.24	3.26	3.26
2	1	8	BRA	43.07	3.18	3.31	3.19	3.23	3.23
3	1	9	TTO	43.67	3.32	3.33	3.33	3.33	3.33
1	2	7	DEN	43.9	3.26	3.25	3.30	3.27	3.27
2	2	5	GHA	44.12	3.36	3.49	3.31	3.39	3.39
3	2	6	THA	44.24	3.27	3.31	3.32	3.30	3.30
1	3	2	GER	43.03	3.20	3.17	3.26	3.21	3.21
2	3	7	JAM	43.08	3.27	3.29	3.21	3.26	3.26
3	3	9	AUS	43.19	3.16	3.22	3.19	3.19	3.19

Take-Over-Zone time, Elapsed time from the former leg entrance into the zone until the next leg exit.

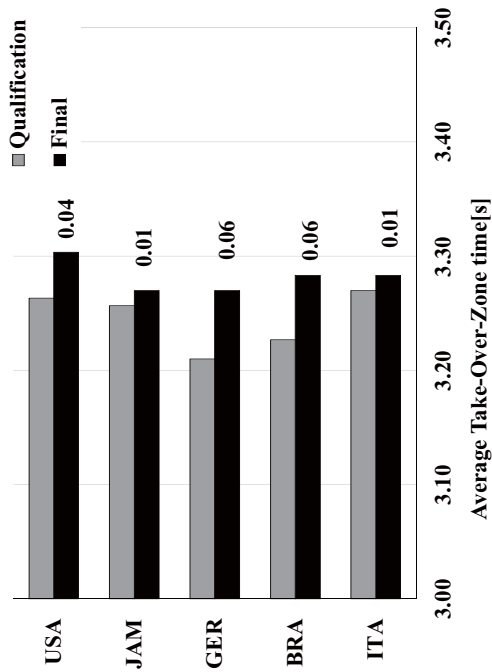


Figure3 Progress in Average Take-Over-Zone Time from qualification to final.

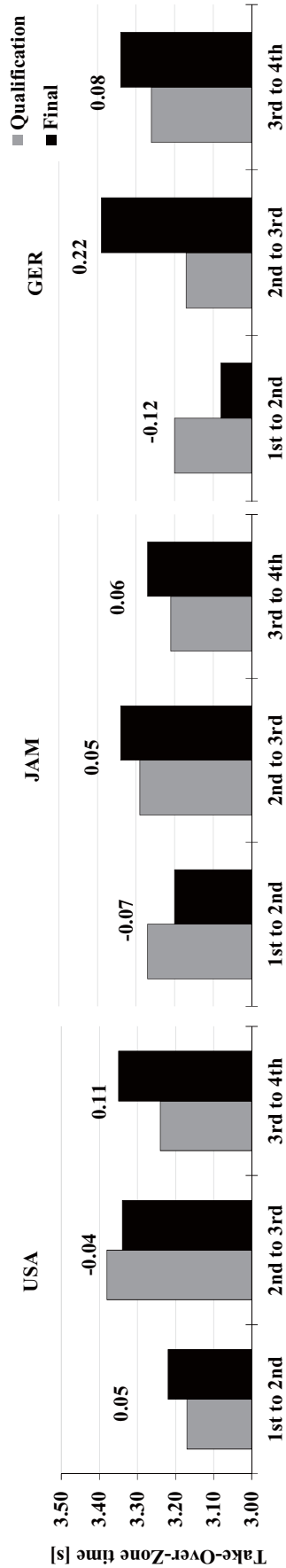


Figure4 Progress in each Take-Over-Zone Time of top 3 teams in final

# IAAF 世界リレー2019 横浜大会 女子 4×100mR

Table3 100-meters personal best of each leg in comparison with their leg times.

Team	100m time		Qualification					Ave.
	1st	Final	1st	2nd	3rd	4th		
USA	100m PB	10.96	10.96	10.96	10.99	10.85	10.94	10.94
	100m Leg	11.57	10.59	10.75	10.74	10.96	10.52	10.70
JAM	100m PB	11.22	10.96	11.10	11.04	11.10	10.96	11.08
	100m Leg	11.76	10.81	10.71	10.45	11.86	10.71	10.88
GER	100m PB	11.29	11.32	10.95	11.06	11.29	11.14	11.11
	100m Leg	11.72	10.91	10.48	11.08	11.71	10.60	10.68
BRA	100m PB	11.44	11.41	11.13	11.03	11.42	11.41	11.25
	100m Leg	11.96	10.73	10.88	10.79	11.86	10.51	11.03
ITA	100m PB	11.51	11.34	11.39	11.21	11.51	11.34	11.36
	100m Leg	12.10	10.69	10.88	11.03	12.07	10.48	10.99

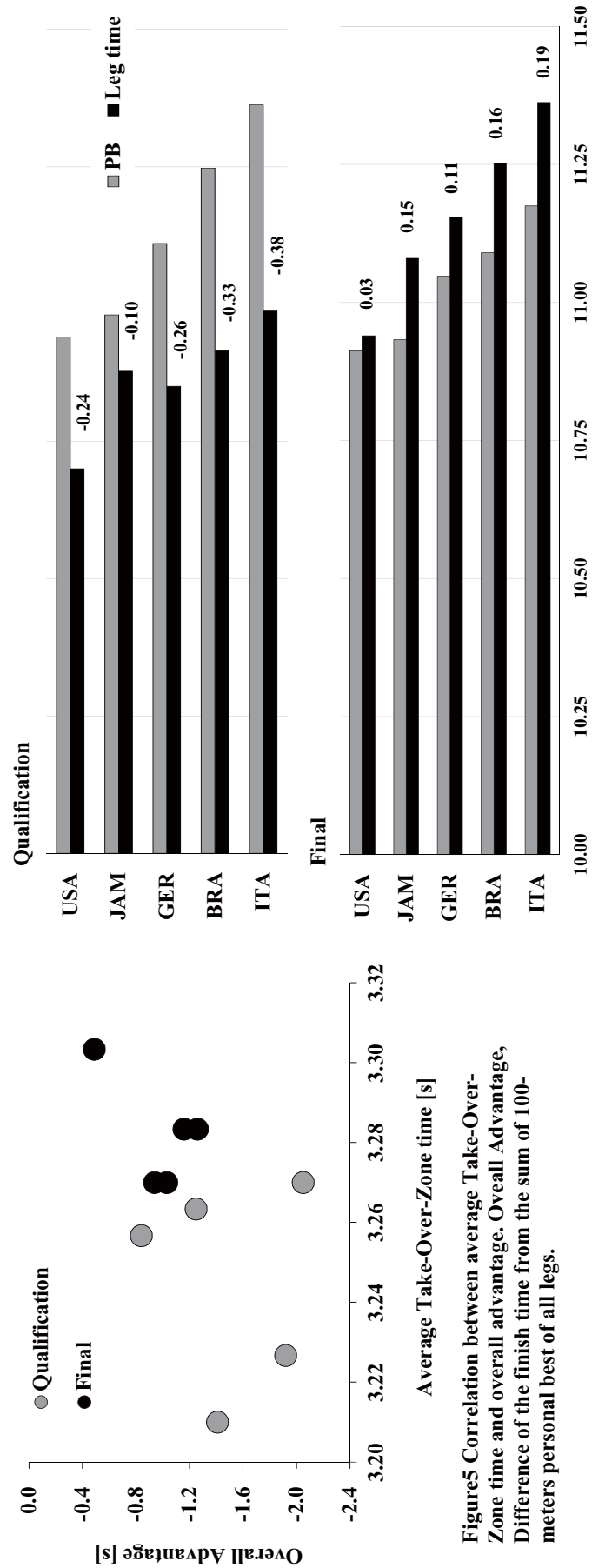


Figure5 Correlation between average Take-Over-Zone time and overall advantage. Overall Advantage, Difference of the finish time from the sum of 100-meters personal best of all legs.

Figure6 Comparison of average 100-meters personal best with average leg time in qualification and final.



# IAAF 世界リレー2019 横浜大会 男子 4×400mR

May 10th-11th, 2019

## 2019 World Relays in Yokohama Men 4x400m Relay Results

Table 1. Orders and split times in Final and each Qualification

Position	Heat	Lane	Athletes				Finish time [m:s]					Split time [s]				
			1st	2nd	3rd	4th	200m	400m	600m	800m	1000m	1200m	1400m	1600m		
1	-	4	Deon Lendore	Jereem Richards	Asa Guevara	Machel Cedenio	<b>3:00.81</b>	21.86	46.08	66.52	90.89	111.41	136.59	157.06	180.81	
2	-	5	Demish Gaye	Akeem Bloomfield	Rusheen McDonald	Nathon Allen	<b>3:01.57</b>	21.71	45.86	66.72	90.78	111.65	136.19	157.16	181.57	
3	-	8	Dylan Borlée	Robin Vanderbenden	Jonathan Borlée	Jonathan Sacoor	<b>3:02.70</b>	22.19	46.70	67.06	92.03	112.68	137.55	158.45	182.70	
4	-	6	Julian Frummi Walsh	Kentaro Sato	Nozaki Kitatani	Kouta Wakabayashi	<b>3:03.24</b>	21.60	46.05	66.90	91.65	112.52	137.28	158.02	183.24	
5	-	2	Rabah Yousif	Dwayne Cowan	Maryn Rooney	Cameron Chalmers	<b>3:04.96</b>	22.09	46.58	67.48	93.19	114.40	139.30	160.66	184.96	
1	1	3	Nathan Strother	Josephus Lyles	Paul Dedewo	Je-Von Hutchison	<b>3:02.06</b>	21.69	44.89	66.43	90.92	112.67	136.29	158.02	182.06	
2	1	4	Demish Gaye	Akeem Bloomfield	Javon Francis	Nathon Allen	<b>3:02.67</b>	21.54	45.55	67.02	90.79	112.55	137.00	158.12	182.67	
3	1	6	Rabah Yousif	Dwayne Cowan	Cameron Chalmers	Maryn Rooney	<b>3:03.11</b>	21.62	46.06	67.33	91.73	113.11	137.61	158.93	183.11	
1	2	4	Julian Frummi Walsh	Yoshinobu Imoto	Kentaro Sato	Kouta Wakabayashi	<b>3:02.55</b>	21.39	45.41	66.05	91.12	112.01	136.44	157.84	182.55	
2	2	3	Dylan Borlée	Robin Vanderbenden	Julien Watrin	Jonathan Sacoor	<b>3:03.70</b>	21.87	45.85	66.92	91.78	112.95	137.76	159.38	183.70	
3	2	7	Mame-Ibra Amé	Thomas Jordier	Ludvy Vaillant	Fabrisio Sady	<b>03:04.1</b>	22.32	45.78	66.52	92.54	113.15	138.34	160.74	184.10	
1	3	4	Deon Lendore	Jereem Richards	Asa Guevara	Machel Cedenio	<b>3:02.49</b>	21.86	45.62	66.53	90.71	111.71	136.60	158.42	182.49	
2	3	7	Gardao Isaacs	Ranti Marvin Digale	Pieter Conradie	Ashley Hlungwani	<b>3:02.77</b>	21.67	45.93	66.92	91.09	112.41	136.77	158.48	182.75	
3	3	5	Ramsey Angela	Terrence Agard	Liemarvin Bonevacia	Tony Van Diepen	<b>3:04.30</b>	23.06	47.35	68.40	92.81	114.51	138.97	160.55	184.28	

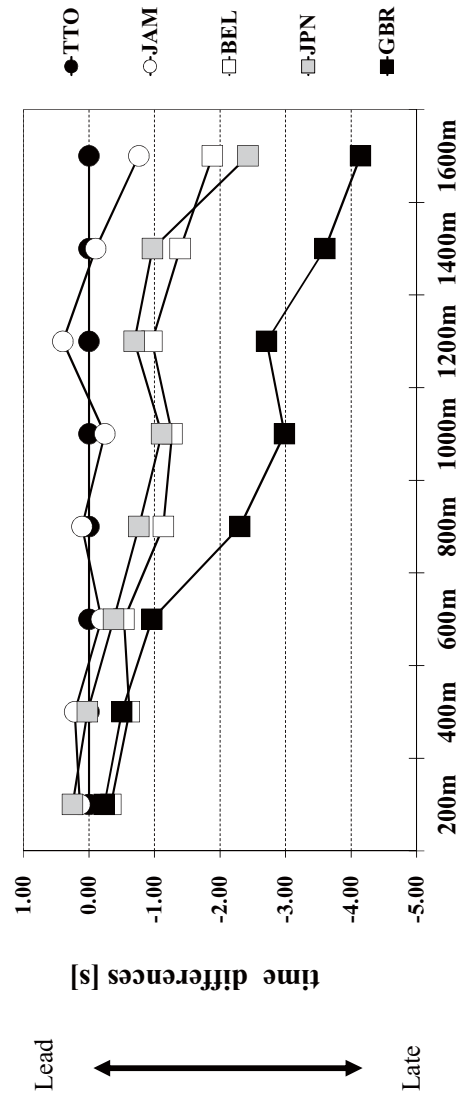


Figure 1. Change of time differences from the team of winner (TTO) during Final

# IAAF 世界リレー2019 横浜大会 男子 4×400mR

May 10th-11th, 2019

## 2019 World Relays in Yokohama Men 4x400m Relay Results

Table 2. Lap times during Final and each Qualification and personal best times

Position	Heat	Lane	Country				Finish time [m:s]				Lap time [s]				Personal best time [s]				Average
			1st	2nd	3rd	4th	Average	1st	2nd	3rd	4th	Average	1st	2nd	3rd	4th	Average		
1	-	4	TTO	3:00.81	46.08	44.81	45.70	44.23	45.20	44.36	45.21	45.26	44.01	44.71	44.71				
2	-	5	JAM	3:01.57	45.86	44.92	45.40	45.39	45.39	44.55	43.94	43.93	44.13	44.14	44.14				
3	-	8	BEL	3:02.70	46.70	45.33	45.52	45.15	45.67	45.55	45.65	44.43	45.03	45.17	45.17				
4	-	6	JPN	3:03.24	46.05	45.60	45.63	45.96	45.81	45.35	45.58	45.98	45.81	45.68	45.68				
5	-	2	GBR	3:04.96	46.58	46.61	46.10	45.66	46.24	44.54	45.34	44.45	45.64	44.99	44.99				
1	1	3	USA	3:02.06	44.89	46.03	45.36	45.77	45.52	44.34	45.09	44.43	45.71	44.89	44.89				
2	1	4	JAM	3:02.67	45.55	45.25	46.21	45.66	45.67	44.55	43.94	-	44.13	44.21	44.21				
3	1	6	GBR	3:03.11	46.06	45.66	45.89	45.50	45.78	44.54	45.34	45.64	44.45	44.99	44.99				
1	2	4	JPN	3:02.55	45.41	45.71	45.31	46.11	45.64	45.35	45.82	45.58	45.81	45.64	45.64				
2	2	3	BEL	3:03.70	45.85	45.93	45.99	45.94	45.93	45.55	45.65	45.64	45.03	45.47	45.47				
3	2	7	FRA	03:04.1	45.78	46.76	45.80	45.76	46.03	45.26	45.50	45.25	45.79	45.45	45.45				
1	3	4	TTO	3:02.49	45.62	45.09	45.90	45.89	45.62	44.36	45.21	45.26	44.01	44.71	44.71				
2	3	7	RSA	3:02.77	45.93	45.16	45.68	45.98	45.69	45.39	45.66	45.15	45.76	45.49	45.49				
3	3	5	NED	3:04.30	47.35	45.46	46.16	45.31	46.07	46.93	45.61	44.72	45.83	45.77	45.77				

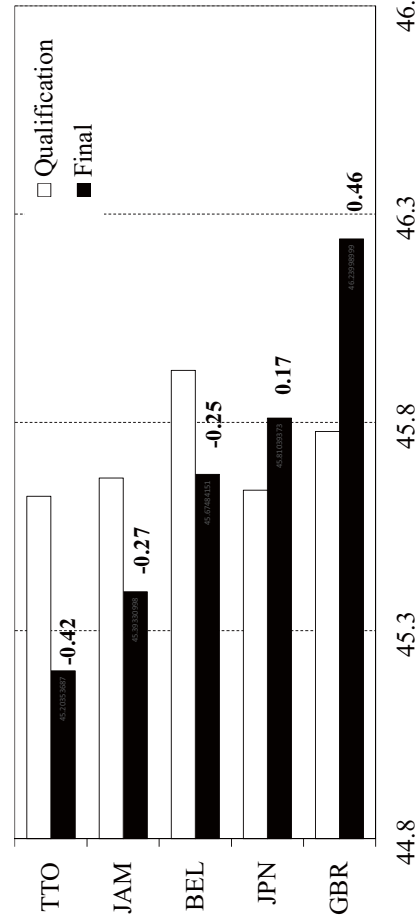


Figure 2. Comparison of average in the 400m lap time during Final and Qualification

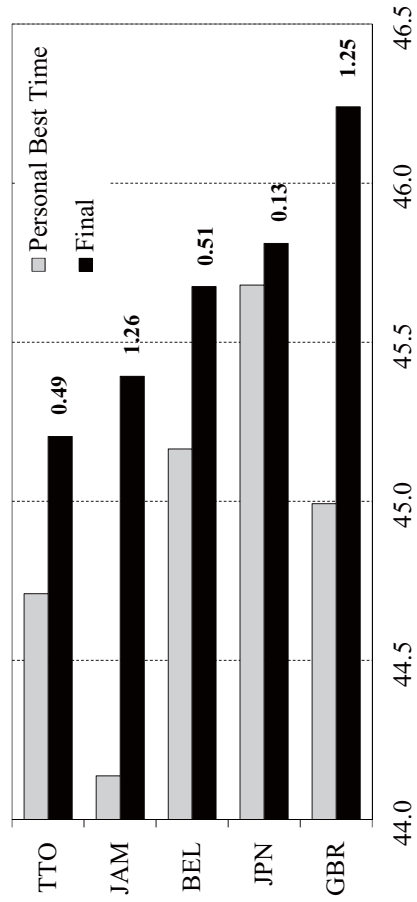


Figure 3. Comparison between the average in the 400m lap time during Final and 400m personal best time

# IAAF 世界リレー2019 横浜大会 男子 4×400mR

May 10th-11th, 2019

## 2019 World Relays in Yokohama Men 4x400m Relay Results

Table 3. Lap times in 0-200 m and 200-400 m during Final and each Qualification

Position	Heat	Lane	Country Finish time [m:s]					0-200m Lap [s]					200-400m Lap [s]					Average
			1st	2nd	3rd	4th	Average	1st	2nd	3rd	4th	Average	1st	2nd	3rd	4th	Average	
1	-	4	TTO	3:00.81	21.86	20.45	20.52	20.47	20.82	24.22	24.37	25.18	23.76	24.38				
2	-	5	JAM	3:01.57	21.71	20.85	20.87	20.97	21.10	24.15	24.07	24.53	24.42	24.29				
3	-	8	BEL	3:02.70	22.19	20.36	20.65	20.90	21.03	24.51	24.97	24.87	24.25	24.65				
4	-	6	JPN	3:03.24	21.60	20.85	20.87	20.75	21.02	24.45	24.75	24.76	25.22	24.79				
5	-	2	GBR	3:04.96	22.09	20.90	21.20	21.36	21.39	24.49	25.71	24.90	24.30	24.85				
1	1	3	USA	3:02.06	21.69	21.54	21.75	21.74	21.68	23.21	24.49	23.62	24.04	23.84				
2	1	4	JAM	3:02.67	21.54	21.47	21.76	21.12	21.47	24.01	23.77	24.45	24.54	24.19				
3	1	6	GBR	3:03.11	21.62	21.26	21.39	21.31	21.40	24.44	24.40	24.50	24.19	24.38				
1	2	4	JPN	3:02.55	21.39	20.64	20.89	21.40	21.08	24.02	25.08	24.42	24.71	24.56				
2	2	3	BEL	3:03.70	21.87	21.07	21.17	21.61	21.43	23.97	24.86	24.82	24.32	24.49				
3	2	7	FRA	03:04.1	22.32	20.74	20.60	22.40	21.52	23.46	26.03	25.19	23.37	24.51				
1	3	4	TTO	3:02.49	21.86	20.91	21.00	21.81	21.40	23.77	24.17	24.89	24.07	24.23				
2	3	7	RSA	3:02.77	21.67	20.99	21.32	21.71	21.42	24.26	24.17	24.36	24.27	24.27				
3	3	5	NED	3:04.30	23.06	21.05	21.71	21.58	21.85	24.29	24.41	24.46	23.73	24.22				

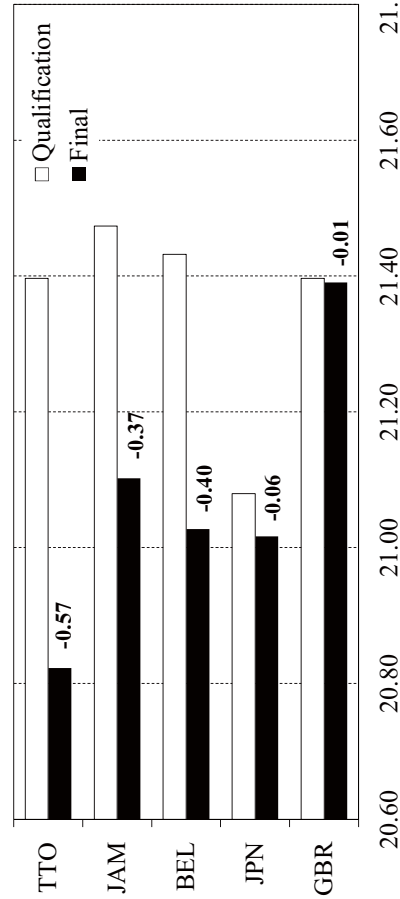


Figure 4. Comparison of average in the 0-200-m lap time during Final and Qualification

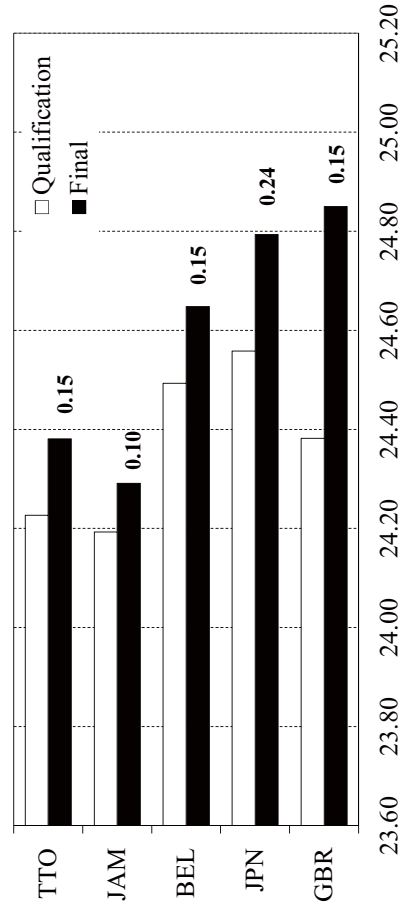


Figure 5. Comparison of average in the 200-400-m lap time during Final and Qualification

# IAAF 世界リレー2019 横浜大会 女子 4×400mR

May 10th-11th, 2019

## 2019 World Relays in Yokohama Women 4x400m Relay Results

Table 1. Orders and split times in Final and each Qualification

Position	Heat	Lane	Athletes				Finish time [m:s]					Split time [s]				
			1st	2nd	3rd	4th	200m	400m	600m	800m	1000m	1200m	1400m	1600m		
1	-	4	POL	Małgorzata Holub-Kowalik	Patrycja Wyciskiewicz	Anna Kiełbasińska	Justyna Świąty-Ersęte	3:27.49	24.89	52.65	76.55	103.79	128.18	155.99	180.61	207.49
2	-	5	USA	Jade Stepter	Shakima Wimbley	Jessica Beard	Courney Okolo	3:27.65	24.24	52.67	75.78	103.42	127.55	156.62	180.86	207.65
3	-	8	ITA	Marilabedietta Chigholu	Ayomide Folorunso	Giancarla Trevisan	Raphaela Boaheng Lukak	3:27.74	24.99	53.04	76.88	104.19	128.40	156.31	180.96	207.74
4	-	6	CAN	Maya Stephens	Maddeline Price	Alicia Brown	Suga Watson	3:28.21	24.92	53.37	76.67	104.29	128.62	156.72	181.19	208.21
5	-	2	JAM	Chrisam Gordon	Anastasija Le-Roy	Tiffany James	Janeve Russell	3:28.30	24.54	52.74	76.41	104.62	128.12	156.27	180.56	208.30
1	1	3	POL	Małgorzata Holub-Kowalik	Patrycja Wyciskiewicz	Anna Kiełbasińska	Justyna Świąty-Ersęte	3:28.05	25.18	52.29	76.28	103.02	127.88	155.31	181.73	208.05
2	1	4	GBR	Zoe Clark	Lavina Nielsen	Amy Allcock	Emily Diamond	3:28.31	24.54	52.42	76.17	103.65	128.37	155.49	181.63	208.31
3	1	6	SUI	Lén Spranger	Veronica Vuoncudo	Fanette Humair	Yaamin Giger	3:29.15	24.62	52.62	77.47	105.59	129.75	157.66	182.43	209.14
1	2	4	USA	Jade Stepter	Jordan Lavender	Joanna Atkins	Courney Okolo	3:25.72	23.96	51.70	75.16	103.20	126.57	154.59	177.84	205.72
2	2	3	ITA	Marilabedietta Chigholu	Ayomide Folorunso	Elisabetta Vandl	Chiara Bazzoni	3:29.08	24.72	52.02	75.89	102.93	126.26	156.21	181.23	209.08
3	2	7	FRA	Amandine Brosstier	Déborah Samanes	Elea Mariama Diarra	Agnès Khararohaly	3:29.89	24.69	52.63	76.16	103.53	128.70	156.21	181.63	209.89
1	3	4	CAN	Maya Stephens	Maddeline Price	Travia Jones	Suga Watson	3:28.75	24.29	52.42	76.53	103.57	128.21	156.69	180.96	208.75
2	3	7	JAM	Christine Day	Shiam Sulmon	Tiffany James	Chrisam Gordon	3:28.80	25.38	53.00	76.75	105.54	129.09	157.82	181.01	208.80
3	3	5	CHN	Na Fu	Mengxue Liao	Zenghuan Tong	Huizhen Yang	3:31.01	25.98	54.45	78.77	107.12	131.99	159.49	183.05	211.01

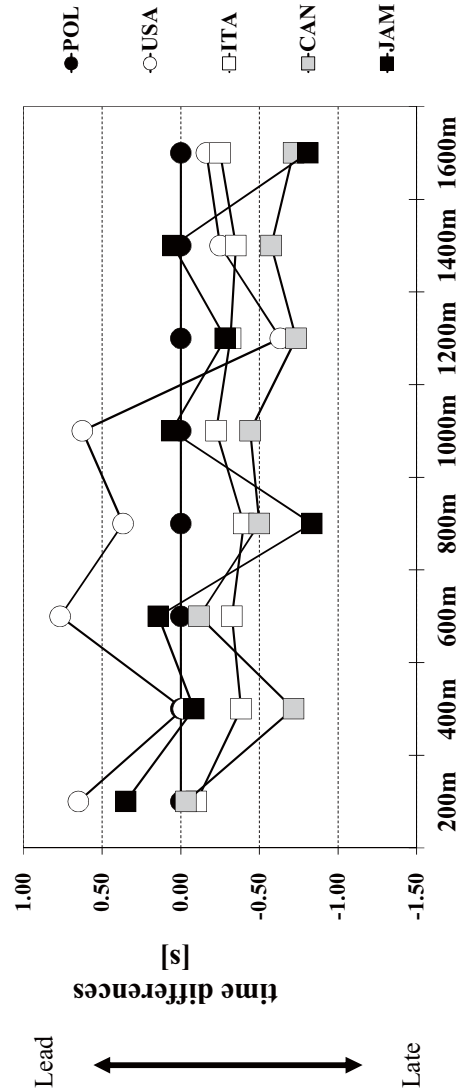


Figure 1. Change of time differences from the team of winner (POL) during Final

# IAAF 世界リレー2019 横浜大会 女子 4×400mR

May 10th-11th, 2019

2019 World Relays in Yokohama Women 4x400m Relay Results  
Table 2. Lap times during Final and each Qualification and personal best times

Position	Heat	Lane	Country					Lap time [s]					Personal best time [s]				
			Finish time [m:s]	1st	2nd	3rd	4th	Average	1st	2nd	3rd	4th	Average				
1	-	4	POL	3:27.49	52.65	51.13	52.20	51.50	51.87	51.18	51.31	51.57	50.41	51.12			
2	-	5	USA	3:27.65	52.67	50.75	53.20	51.03	51.91	50.63	49.52	50.08	49.71	49.99			
3	-	8	ITA	3:27.74	53.04	51.15	52.12	51.43	51.94	51.67	52.25	52.63	52.38	52.23			
4	-	7	CAN	3:28.21	53.37	50.92	52.44	51.48	52.05	52.86	51.56	51.84	54.52	52.70			
5	-	9	JAM	3:28.30	52.74	51.89	51.65	52.03	52.07	50.13	50.57	51.32	51.17	50.80			
1	1	3	POL	3:28.05	52.29	50.73	52.29	52.74	52.01	51.18	51.31	51.57	50.41	51.12			
2	1	9	GBR	3:28.31	52.42	51.23	51.84	52.82	52.08	51.36	51.21	51.36	51.23	51.29			
3	1	8	SUI	3:29.15	52.62	52.97	52.07	51.48	52.29	50.52	54.20	53.66	52.91	52.82			
1	2	6	USA	3:25.72	51.70	51.50	51.38	51.13	51.43	50.63	51.53	50.39	49.71	50.57			
2	2	7	ITA	3:29.08	52.02	50.91	53.28	52.87	52.27	51.67	52.25	52.82	52.06	52.20			
3	2	3	FRA	3:29.89	52.63	50.90	52.68	53.69	52.47	51.77	51.55	51.92	52.23	51.87			
1	3	3	CAN	3:28.75	52.42	51.15	53.12	52.06	52.19	52.86	51.56	51.63	54.52	52.64			
2	3	6	JAM	3:28.80	53.00	52.54	52.29	50.98	52.20	50.14	52.05	51.32	50.13	50.91			
3	3	9	CHN	3:31.01	54.45	52.68	52.37	51.52	52.75	53.25	53.06	52.62	51.80	52.68			

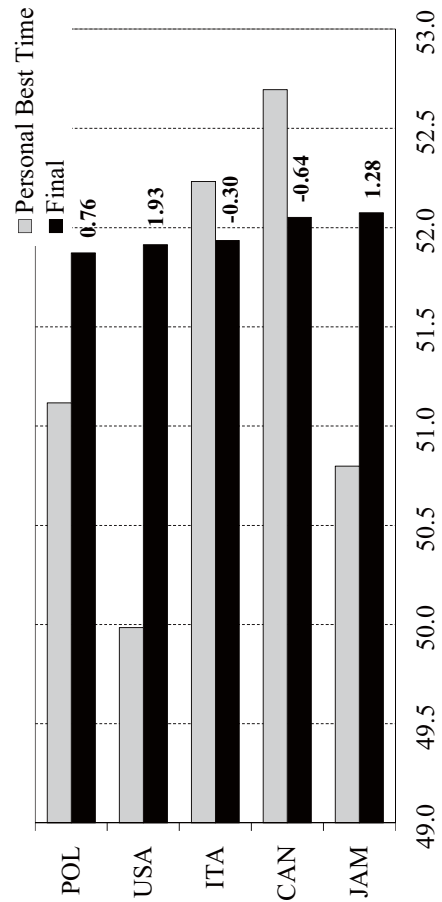


Figure 3. Comparison between the average in the 400m lap time during Final and 400m personal best time

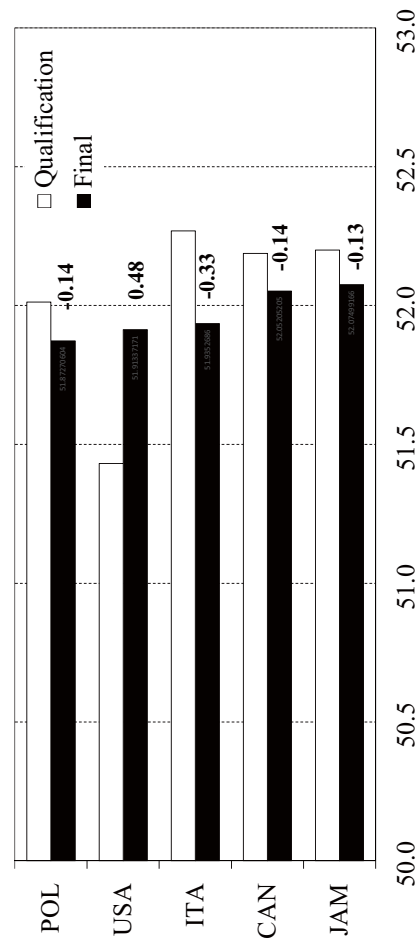


Figure 2. Comparison of average in the 400m lap time during Final and Qualification

# IAAF 世界リレー2019 横浜大会 女子 4×400mR

May 10th-11th, 2019

## 2019 World Relays in Yokohama Women 4x400m Relay Results

Table 3. Lap times in 0-200 m and 200-400 m during Final and each Qualification

Position	Heat	Lane	Country	Country Finish time [m:s]					0-200m Lap [s]					200-400m Lap [s]					Average
				1st	2nd	3rd	4th	Average	1st	2nd	3rd	4th	Average	1st	2nd	3rd	4th	Average	
1	-	4	POL	3:27.49	24.89	23.90	24.39	24.62	24.45	27.76	27.24	27.81	26.88	27.42					
2	-	5	USA	3:27.65	24.24	23.11	24.13	24.24	23.93	28.43	27.64	29.07	26.79	27.98					
3	-	8	ITA	3:27.74	24.99	23.84	24.22	24.66	24.43	28.04	27.31	27.90	26.78	27.51					
4	-	7	CAN	3:28.21	24.92	23.30	24.33	24.47	24.26	28.45	27.62	28.10	27.02	27.80					
5	-	9	JAM	3:28.30	24.54	23.67	23.50	24.29	24.00	28.19	28.21	28.15	27.74	28.07					
1	1	3	POL	3:28.05	25.18	23.99	24.86	26.43	25.11	27.11	26.74	27.43	26.32	26.90					
2	1	9	GBR	3:28.31	24.54	23.75	24.72	26.14	24.79	27.88	27.49	27.12	26.68	27.29					
3	1	8	SUI	3:29.15	24.62	24.85	24.16	24.77	24.60	27.99	28.12	27.91	26.71	27.68					
1	2	6	USA	3:25.72	23.96	23.46	23.37	23.26	23.51	27.74	28.04	28.02	27.88	27.92					
2	2	7	ITA	3:29.08	24.72	23.87	23.33	25.03	24.24	27.30	27.04	29.95	27.84	28.03					
3	2	3	FRA	3:29.89	24.69	23.53	25.18	25.43	24.71	27.94	27.37	27.50	28.26	27.77					
1	3	3	CAN	3:28.75	24.29	24.11	24.64	24.27	24.33	28.13	27.04	28.48	27.79	27.86					
2	3	6	JAM	3:28.80	25.38	23.75	23.55	23.19	23.97	27.63	28.79	28.74	27.79	28.23					
3	3	9	CHN	3:31.01	25.98	24.32	24.87	23.56	24.68	28.47	28.35	27.50	27.96	28.07					

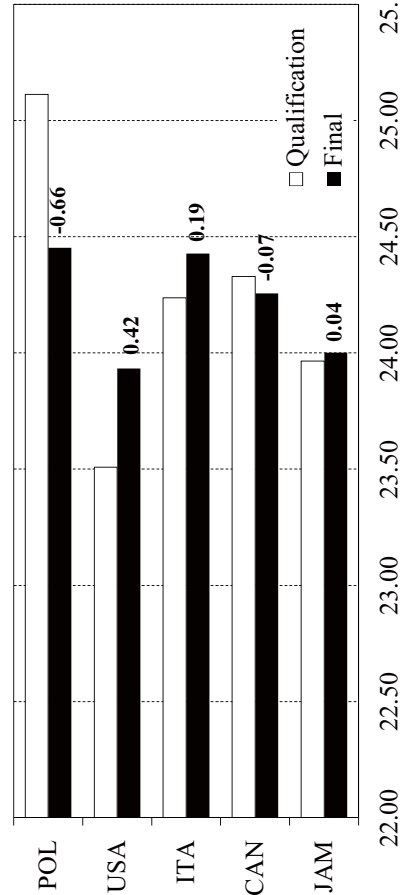


Figure 4. Comparison of average in the 0-200-m lap time during Final and Qualification

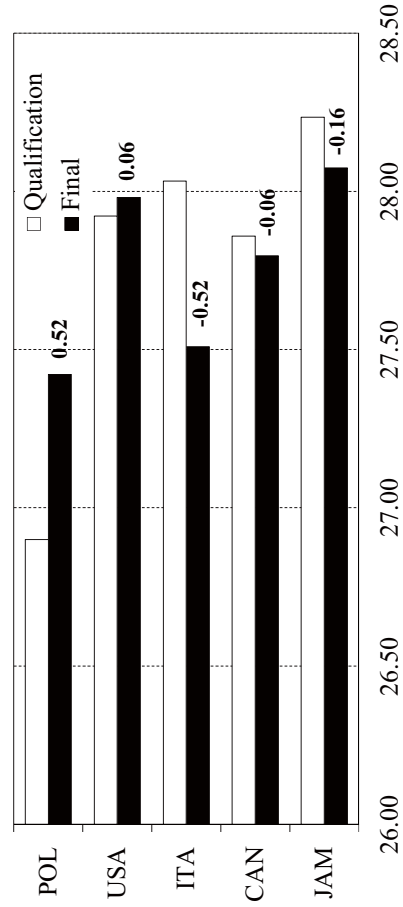


Figure 5. Comparison of average in the 200-400-m lap time during Final and Qualification

# IAAF 世界リレー2019 横浜大会 男女混合 4×400mR

May 10th-11th, 2019

## 2019 World Relays in Yokohama Mix 4x400m Relay Results

Table 1. Orders and split times in Final and each Qualification

Position	Heat	Lane	Athletes				Finish time [m:s]					Split time [s]				
			1st	2nd	3rd	4th	200m	400m	600m	800m	1000m	1200m	1400m	1600m		
1	-	4	USA	My'Lik Kerley Austin Cole	Jemaa Atkins Aiyana-Brigitte Stiveme	Jeanne Blocker Zoe Shear	Donavus Wright Philip Osei	3:16.43	22.01	45.73	70.20	98.08	122.06	150.10	171.61	196.43
2	-	5	CAN	Austin Cole	Aiyana-Brigitte Stiveme	Zoe Shear	Philip Osei	3:18.15	22.02	46.71	70.42	99.18	123.53	151.70	173.09	198.15
3	-	8	KEN	Jarel Nyambweke Momanyi Jarel Nyambweke Momanyi	Maureen Nyatichi Thomas Maureen Nyatichi Thomas	Hellen Syombua Aron Kipchumba Koech	Aron Kipchumba Koech	3:19.43	22.22	47.01	71.60	100.05	123.88	152.85	174.26	199.43
4	-	6	ITA	Giuseppe Leonardi	Virginia Troiani	Chiara Bazzoni	Alessandro Sibillo	3:20.28	22.57	46.80	71.51	100.65	125.76	153.97	176.37	200.28
5	-	2	POL	Przemysław Waściszki	Malgorzata Holub-Kowalik	Justyna Siganak	Paryk Dobek	3:20.65	22.69	47.65	72.50	99.47	124.11	154.14	176.61	200.65
1	1	3	BEL	Julien Warmm	Camille Laus	Liefde Schoemaker	Dylan Bortée	3:18.03	22.52	46.50	71.41	99.11	123.87	152.25	174.09	188.03
2	1	4	BRA	Lucas Carvalho	Tiffani Silva Marinho	Cristiane Silva	Alexander Russo	3:18.26	22.37	46.18	70.05	98.10	123.14	152.08	173.92	188.26
3	1	6	JAM	Fitzroy Dunkley	Janieve Russell	Ronda Whyte	Jamari Rose	3:18.47	22.12	46.91	70.85	98.25	122.62	151.67	173.73	188.47
1	2	4	CAN	Austin Cole	Aiyana-Brigitte Stiveme	Alicia Brown	Philip Osei	3:16.78	21.95	46.86	70.15	98.47	122.71	150.45	171.91	196.78
2	2	3	GER	Tobias Lange	Laura Müller	Nadine Gonska	Torben Junker	3:16.85	22.49	45.80	69.97	97.25	121.98	150.46	172.06	196.84
3	2	7	KEN	Jarel Nyambweke Momanyi	Maureen Nyatichi Thomas	Hellen Syombua	Aron Kipchumba Koech	3:16.90	21.94	46.41	71.40	98.82	122.96	150.78	172.71	196.90
1	3	4	POL	Kajetan Duszyński	Patrycja Wyciskiewicz	Justyna Świąty-Ęsęgie	Karol Zalewski	3:15.46	22.52	47.30	71.46	98.26	122.42	149.34	171.25	195.46
2	3	7	USA	Brianna Thomas	My'Lik Kerley	Olivia Baker	Donavus Wright	3:16.01	24.27	52.17	73.62	97.95	122.36	150.48	171.29	196.01
3	3	5	ITA	David Re	Giancarla Trevisan	Andrew Howe	Raphaela Boaheng-LUKUDO	3:16.12	21.96	45.46	69.57	97.00	118.04	143.74	167.79	196.12

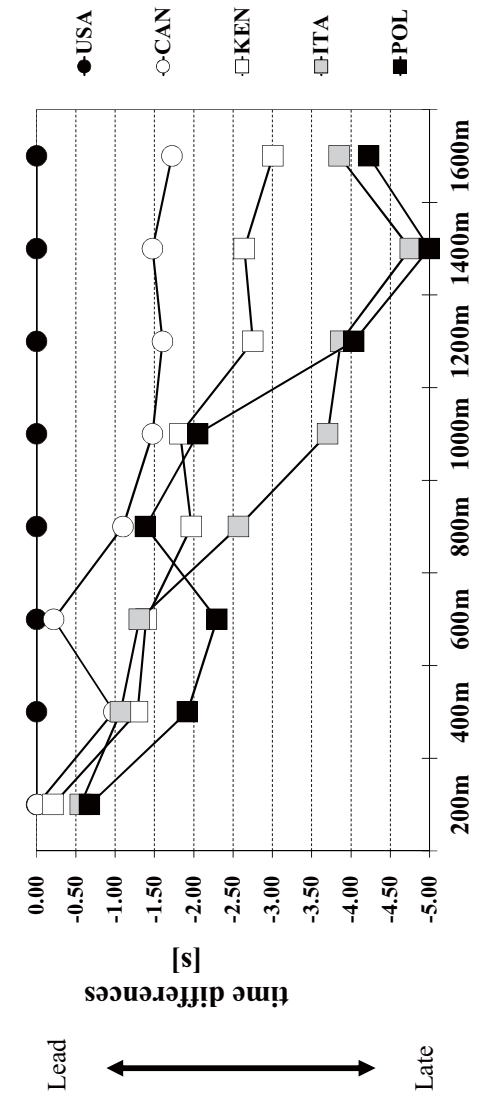


Figure 1. Change of time differences from the team of winner (USA) during Final

# IAAF 世界リレー2019 横浜大会 男女混合 4×400mR

May 10th-11th, 2019

## 2019 World Relays in Yokohama Mix 4x400m Relay Results

Table 2. Lap times and personal best times of top teams during Final and each Qualification

Position	Heat	Lane	Country					Finish time [m:s]					Lap time [s]					Personal best time [s]				
			1st	2nd	3rd	4th	Average	1st	2nd	3rd	4th	Average	1st	2nd	3rd	4th	Average					
1	-	5	USA	3:16.43	45.73	52.35	52.02	46.33	49.11	44.85	50.39	51.46	45.12	47.96								
2	-	7	CAN	3:18.15	46.71	52.47	52.52	46.45	49.54	45.90	51.86	52.34	45.23	48.83								
3	-	3	KEN	3:19.43	47.01	53.04	52.80	46.58	49.86	45.13	52.09	51.09	46.76	48.77								
4	-	2	ITA	3:20.28	46.80	53.85	53.32	46.30	50.07	46.19	53.53	52.06	46.48	49.57								
5	-	4	POL	3:20.65	47.65	51.82	54.67	46.51	50.16	46.14	51.18	53.00	46.12	49.11								
1	1	4	BEL	3:18.03	46.50	52.61	53.14	35.78	47.01	45.64	51.49	53.38	45.55	49.02								
2	1	8	BRA	3:18.26	46.18	51.92	53.98	36.18	47.07	45.37	52.21	52.91	45.55	49.01								
3	1	3	JAM	3:18.47	46.91	51.33	53.42	36.80	47.12	45.06	51.17	52.42	45.68	48.58								
1	2	7	CAN	3:16.78	46.86	51.60	51.99	46.33	49.20	45.90	51.86	51.84	45.23	48.71								
2	2	3	GER	3:16.85	45.80	51.44	53.21	46.38	49.21	46.31	51.69	52.00	46.17	49.04								
3	2	5	KEN	3:16.90	46.41	52.40	51.97	46.11	49.22	45.13	52.09	51.09	46.76	48.77								
1	3	8	POL	3:15.46	47.30	50.97	51.08	46.12	48.87	45.98	51.31	50.41	45.11	48.20								
2	3	7	USA	3:16.01	52.17	45.78	52.54	45.53	49.00	50.78	44.85	52.46	45.12	48.30								
3	3	5	ITA	3:16.12	45.46	51.53	46.75	52.38	49.03	44.77	52.63	45.70	52.38	48.87								

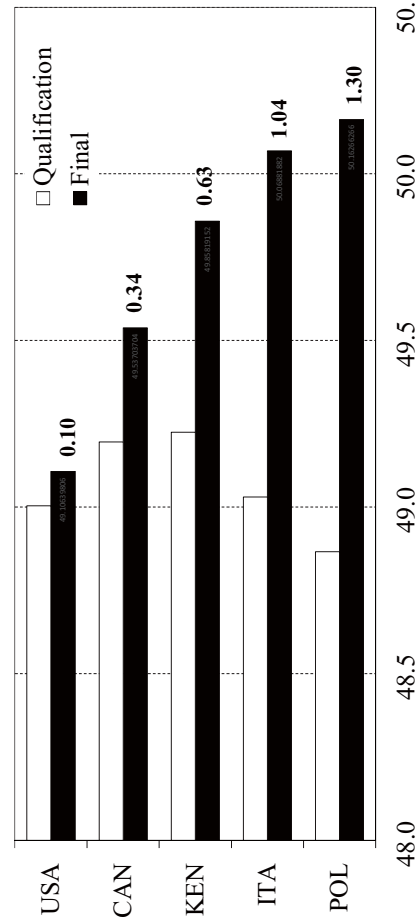


Figure 2. Comparison of average in the 400m lap time during Final and Qualification

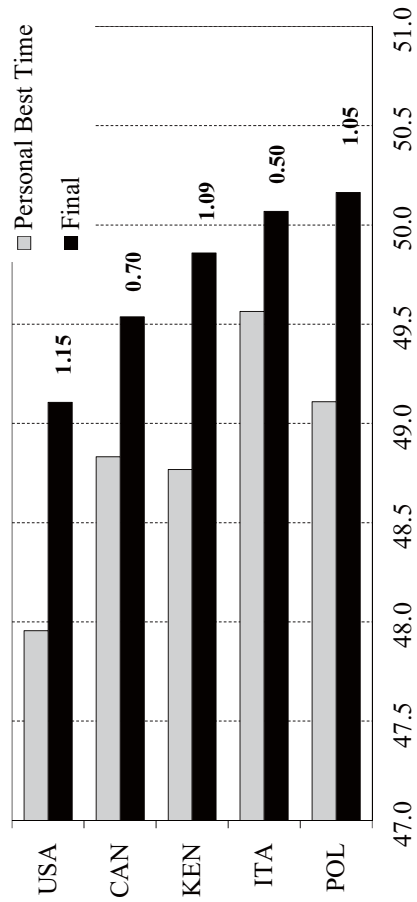


Figure 3. Comparison between the average in the 400m lap time during Final and 400m personal best time



# IAAF 世界リレー2019 横浜大会 男女混合 4×400mR

May 10th-11th, 2019

## 2019 World Relays in Yokohama Mix 4x400m Relay Results

Table 3. Lap times in 0-200 m and 200-400 m during Final and each Qualification

Position	Heat	Lane	Country	Country Finish time [m:s]					0-200m Lap [s]					200-400m Lap [s]					Average
				1st	2nd	3rd	4th	Average	1st	2nd	3rd	4th	Average	1st	2nd	3rd	4th	Average	
1	-	5	USA	3:16.43	22.01	24.47	23.97	21.51	22.99	23.72	27.88	28.04	24.81	26.11					
2	-	7	CAN	3:18.15	22.02	23.71	24.35	21.39	22.87	24.69	28.76	28.17	25.06	26.67					
3	-	3	KEN	3:19.43	22.22	24.58	23.83	21.40	23.01	24.79	28.45	28.97	25.18	26.85					
4	-	2	ITA	3:20.28	22.57	24.72	25.11	22.40	23.70	24.22	29.14	28.21	23.91	26.37					
5	-	4	POL	3:20.65	22.69	24.85	24.64	22.47	23.66	24.96	26.97	30.03	24.04	26.50					
1	1	4	BEL	3:18.03	22.52	24.92	24.77	21.84	23.51	23.97	27.69	28.38	13.94	23.50					
2	1	8	BRA	3:18.26	22.37	23.87	25.04	21.85	23.28	23.81	28.04	28.94	14.34	23.78					
3	1	3	JAM	3:18.47	22.12	23.94	24.37	22.06	23.13	24.79	27.39	29.05	14.74	23.99					
1	2	7	CAN	3:16.78	21.95	23.29	24.24	21.46	22.74	24.92	28.31	27.74	24.87	26.46					
2	2	3	GER	3:16.85	22.49	24.17	24.73	21.60	23.25	23.31	27.28	28.48	24.77	25.96					
3	2	5	KEN	3:16.90	21.94	24.98	24.14	21.92	23.25	24.47	27.42	27.83	24.19	25.98					
1	3	8	POL	3:15.46	22.52	24.17	24.16	21.91	23.19	24.77	26.80	26.92	24.21	25.68					
2	3	7	USA	3:16.01	24.27	21.45	24.42	20.80	22.74	27.89	24.33	28.12	24.72	26.27					
3	3	5	ITA	3:16.12	21.96	24.11	21.05	24.05	22.79	23.51	27.43	25.70	28.33	26.24					

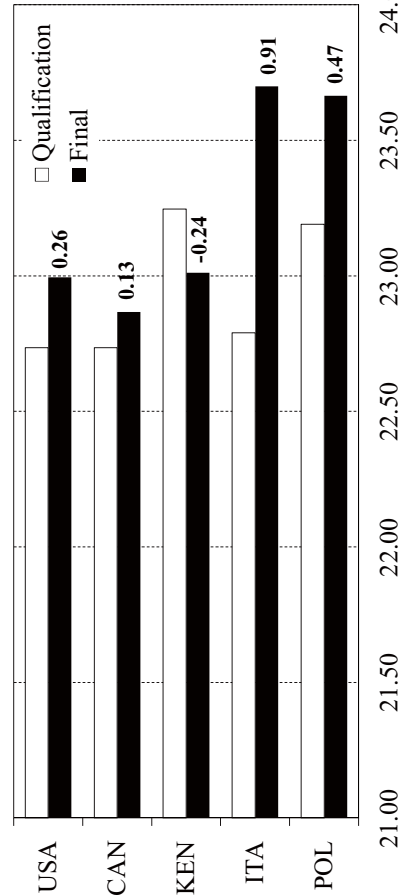


Figure 4. Comparison of average in the 0-200-m lap time during Final and Qualification

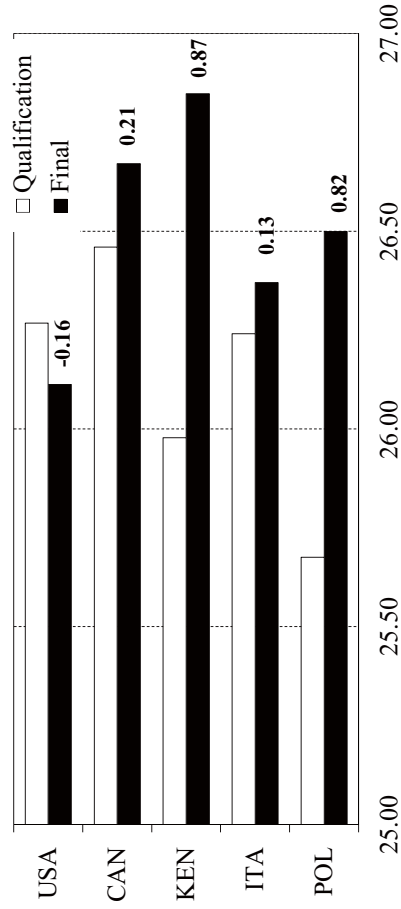


Figure 5. Comparison of average in the 200-400-m lap time during Final and Qualification

