		Bytes	Parameters
Dataset	Model	•	
	ComplEx	26.1 MB	6.5 M
	ConvE	22.5 MB	5.6 M
	DistMult	6.5 MB	1.6 M
	HolE	9.8 MB	2.4 M
	KG2E	6.5 MB	1.6 M
FB15k	RotatE	130.4 MB	32.6 M
FB15K	SimplE	26.1 MB	6.5 M
	TransD	6.5 MB	1.6 M
	TransE	3.3 MB	814.8 k
	TransH	7.1 MB	1.8 M
	TransR	16.7 MB	4.2 M
	TuckER	46.1 MB	11.5 M
	ConvE	20.3 MB	5.1 M
FB15k237	ConvKB	5.9 MB	1.5 M
	RotatE	117.9 MB	29.5 M
	ComplEx	49.2 MB	12.3 M
	ConvE	41.2 MB	10.3 M
	DistMult	16.4 MB	4.1 M
	HolE	24.6 MB	6.1 M
	KG2E	16.4 MB	4.1 M
WN18	RotatE	163.8 MB	41.0 M
W1V10	SimplE	65.5 MB	16.4 M
	TransD	16.4 MB	4.1 M
	TransE	3.3 MB	819.2 k
	TransH	8.2 MB	2.0 M
	TransR	8.4 MB	2.1 M
	TuckER	37.6 MB	9.4 M
	ConvE	40.9 MB	10.2 M
WN18RR	ConvKB	8.2 MB	2.1 M
	RotatE	162.3 MB	40.6 M

## I. FB15k EVALUATION

- A. FB15k Average
- B. FB15k Best
- C. FB15k Worst

## II. FB15K237 EVALUATION

- A. FB15k237 Average
- B. FB15k237 Best
- C. FB15k237 Worst

## III. WN18 EVALUATION

- A. WN18 Average
- B. WN18 Best
- C. WN18 Worst

## IV. WN18RR EVALUATION

- A. WN18RR Average
- B. WN18RR Best
- C. WN18RR Worst

	MR	MRR (%)	AMR (%)	Hits@1 (%)	Hits@3 (%)	Hits@5 (%)	Hits@10 (%)
ComplEx	$171.16 \pm 16.05$	$19.13 \pm 0.45$	$2.46 \pm 0.28$	$10.06 \pm 0.42$	$20.82 \pm 0.67$	$27.59 \pm 0.94$	$38.03 \pm 1.02$
ConvE	$50.76 \pm 0.40$	$59.56 \pm 0.06$	$0.73 \pm 0.01$	$48.28 \pm 0.12$	$66.99 \pm 0.04$	$73.27 \pm 0.03$	$79.76 \pm 0.07$
DistMult	$134.02 \pm 1.98$	$26.06 \pm 0.17$	$1.86 \pm 0.03$	$16.45 \pm 0.16$	$29.10 \pm 0.17$	$35.54 \pm 0.21$	$45.00 \pm 0.25$
HolE	$193.03 \pm 7.61$	$34.15 \pm 0.22$	$2.71 \pm 0.12$	$21.79 \pm 0.19$	$39.69 \pm 0.24$	$48.06 \pm 0.30$	$58.84 \pm 0.28$
KG2E	$5779.07 \pm 51.02$	$0.58 \pm 0.07$	$78.40 \pm 0.68$	$0.11 \pm 0.04$	$0.36 \pm 0.08$	$0.56 \pm 0.10$	$1.01 \pm 0.14$
RotatE	$42.28 \pm 0.13$	$55.00 \pm 0.06$	$0.63 \pm 0.00$	$41.53 \pm 0.06$	$64.14 \pm 0.07$	$71.23 \pm 0.05$	$78.67 \pm 0.08$
SimplE	$7395.75 \pm 2.02$	$0.04 \pm 0.00$	$100.02 \pm 0.03$	$0.01 \pm 0.00$	$0.03 \pm 0.00$	$0.04 \pm 0.00$	$0.06 \pm 0.01$
TransD	$153.37 \pm 5.35$	$33.99 \pm 0.03$	$2.29 \pm 0.09$	$21.22 \pm 0.03$	$40.48 \pm 0.10$	$48.57 \pm 0.09$	$58.71 \pm 0.14$
TransE	$127.92 \pm 0.86$	$26.01 \pm 0.17$	$1.78 \pm 0.01$	$15.23 \pm 0.16$	$29.85 \pm 0.24$	$37.18 \pm 0.24$	$47.34 \pm 0.18$
TransH	$6320.02 \pm 30.37$	$2.54 \pm 0.20$	$85.63 \pm 0.40$	$1.69 \pm 0.25$	$2.95 \pm 0.20$	$3.29 \pm 0.22$	$3.74 \pm 0.18$
TransR	$6795.95 \pm 16.65$	$0.65 \pm 0.02$	$91.99 \pm 0.22$	$0.37 \pm 0.00$	$0.63 \pm 0.04$	$0.78 \pm 0.06$	$1.03 \pm 0.07$
TuckER	$7327.77 \pm 29.22$	$0.07 \pm 0.02$	$99.11 \pm 0.39$	$0.01 \pm 0.00$	$0.02 \pm 0.00$	$0.03 \pm 0.01$	$0.15\pm0.17$

 $TABLE \; II \\ Reproduction \; Results \; on \; FB15k \; Based \; on \; an \; Optimistic \; Ranking \;$ 

	MR	MRR (%)	Hits@1 (%)	Hits@3 (%)	Hits@5 (%)	Hits@10 (%)
ComplEx	$171.16 \pm 16.05$	$19.13 \pm 0.45$	$10.06 \pm 0.42$	$20.82 \pm 0.67$	$27.59 \pm 0.94$	$38.03 \pm 1.02$
ConvE	$50.76 \pm 0.40$	$59.56 \pm 0.06$	$48.28 \pm 0.12$	$66.99 \pm 0.04$	$73.27 \pm 0.03$	$79.76 \pm 0.07$
DistMult	$134.02 \pm 1.98$	$26.06 \pm 0.17$	$16.45 \pm 0.16$	$29.10 \pm 0.17$	$35.54 \pm 0.21$	$45.00 \pm 0.25$
HolE	$193.03 \pm 7.61$	$34.15 \pm 0.22$	$21.79 \pm 0.19$	$39.69 \pm 0.24$	$48.06 \pm 0.30$	$58.84 \pm 0.28$
KG2E	$5779.07 \pm 51.02$	$0.58 \pm 0.07$	$0.11 \pm 0.04$	$0.36 \pm 0.08$	$0.56 \pm 0.10$	$1.01 \pm 0.14$
RotatE	$42.28 \pm 0.13$	$55.00 \pm 0.06$	$41.53 \pm 0.06$	$64.14 \pm 0.07$	$71.23 \pm 0.05$	$78.67 \pm 0.08$
SimplE	$139.34 \pm 49.45$	$23.90 \pm 8.79$	$11.58 \pm 6.42$	$24.16 \pm 10.95$	$34.73 \pm 13.40$	$54.28 \pm 15.80$
TransD	$153.37 \pm 5.35$	$33.99 \pm 0.03$	$21.22 \pm 0.03$	$40.48 \pm 0.10$	$48.57 \pm 0.09$	$58.71 \pm 0.14$
TransE	$127.92 \pm 0.86$	$26.01 \pm 0.17$	$15.23 \pm 0.16$	$29.85 \pm 0.24$	$37.18 \pm 0.24$	$47.34 \pm 0.18$
TransH	$6320.00 \pm 30.37$	$2.54 \pm 0.20$	$1.69 \pm 0.25$	$2.95 \pm 0.20$	$3.29 \pm 0.22$	$3.74 \pm 0.18$
TransR	$6795.94 \pm 16.65$	$0.65 \pm 0.02$	$0.37 \pm 0.00$	$0.63 \pm 0.04$	$0.78 \pm 0.06$	$1.03 \pm 0.07$
TuckER	$7327.77 \pm 29.22$	$0.07\pm0.02$	$0.01\pm0.00$	$0.02 \pm 0.00$	$0.03 \pm 0.01$	$0.15 \pm 0.17$

	MR	MRR (%)	Hits@1 (%)	Hits@3 (%)	Hits@5 (%)	Hits@10 (%)
ComplEx	$171.16 \pm 16.05$	$19.13 \pm 0.45$	$10.06 \pm 0.42$	$20.82 \pm 0.67$	$27.59 \pm 0.94$	$38.03 \pm 1.02$
ConvE	$50.76 \pm 0.40$	$59.56 \pm 0.06$	$48.28 \pm 0.12$	$66.99 \pm 0.04$	$73.27 \pm 0.03$	$79.76 \pm 0.07$
DistMult	$134.02 \pm 1.98$	$26.06 \pm 0.17$	$16.45 \pm 0.16$	$29.10 \pm 0.17$	$35.54 \pm 0.21$	$45.00 \pm 0.25$
HolE	$193.03 \pm 7.61$	$34.15 \pm 0.22$	$21.79 \pm 0.19$	$39.69 \pm 0.24$	$48.06 \pm 0.30$	$58.84 \pm 0.28$
KG2E	$5779.07 \pm 51.02$	$0.58 \pm 0.07$	$0.11 \pm 0.04$	$0.36 \pm 0.08$	$0.56 \pm 0.10$	$1.01 \pm 0.14$
RotatE	$42.28 \pm 0.13$	$55.00 \pm 0.06$	$41.53 \pm 0.06$	$64.14 \pm 0.07$	$71.23 \pm 0.05$	$78.67 \pm 0.08$
SimplE	$139.34 \pm 49.45$	$23.90 \pm 8.79$	$11.58 \pm 6.42$	$24.16 \pm 10.95$	$34.73 \pm 13.40$	$54.28 \pm 15.80$
TransD	$153.37 \pm 5.35$	$33.99 \pm 0.03$	$21.22 \pm 0.03$	$40.48 \pm 0.10$	$48.57 \pm 0.09$	$58.71 \pm 0.14$
TransE	$127.92 \pm 0.86$	$26.01 \pm 0.17$	$15.23 \pm 0.16$	$29.85 \pm 0.24$	$37.18 \pm 0.24$	$47.34 \pm 0.18$
TransH	$6320.00 \pm 30.37$	$2.54 \pm 0.20$	$1.69 \pm 0.25$	$2.95 \pm 0.20$	$3.29 \pm 0.22$	$3.74 \pm 0.18$
TransR	$6795.94 \pm 16.65$	$0.65 \pm 0.02$	$0.37 \pm 0.00$	$0.63 \pm 0.04$	$0.78 \pm 0.06$	$1.03 \pm 0.07$
TuckER	$7327.77 \pm 29.22$	$0.07 \pm 0.02$	$0.01 \pm 0.00$	$0.02 \pm 0.00$	$0.03 \pm 0.01$	$0.15 \pm 0.17$

 $\label{table_iv} \textbf{TABLE IV} \\ \textbf{Reproduction Results on FB15k237 Based on an Average Ranking}$ 

	MR	MRR (%)	AMR (%)	Hits@1 (%)	Hits@3 (%)	Hits@5 (%)	Hits@10 (%)
ConvE ConvKB RotatE	$\begin{array}{c} 255.46 \pm & 6.16 \\ 4345.27 \pm 46.99 \\ 191.92 \pm & 0.31 \end{array}$	$26.93 \pm 0.11$ $4.71 \pm 0.23$ $26.42 \pm 0.04$	$3.73 \pm 0.13$ $61.36 \pm 0.65$ $2.84 \pm 0.00$	$18.22 \pm 0.11 \\ 3.31 \pm 0.23 \\ 17.57 \pm 0.06$	$29.51 \pm 0.24$ $4.04 \pm 0.19$ $28.97 \pm 0.05$	$35.98 \pm 0.16$ $4.57 \pm 0.22$ $35.29 \pm 0.09$	$44.95 \pm 0.17 7.76 \pm 0.88 44.55 \pm 0.06$

 $\label{table V} \textbf{Reproduction Results on FB15k237 Based on an Optimistic Ranking}$ 

	MR	MRR (%)	Hits@1 (%)	Hits@3 (%)	Hits@5 (%)	Hits@10 (%)
ConvE ConvKB RotatE	$\begin{array}{c} 255.46 \pm & 6.16 \\ 4345.27 \pm 46.99 \\ 191.92 \pm & 0.31 \end{array}$	$26.93 \pm 0.11$ $4.71 \pm 0.23$ $26.42 \pm 0.04$	$18.22 \pm 0.11  3.31 \pm 0.23  17.57 \pm 0.06$	$29.51 \pm 0.24$ $4.04 \pm 0.19$ $28.97 \pm 0.05$	$35.98 \pm 0.16$ $4.57 \pm 0.22$ $35.29 \pm 0.09$	$\begin{array}{c} 44.95 \pm 0.17 \\ 7.76 \pm 0.88 \\ 44.55 \pm 0.06 \end{array}$

 $TABLE\ VI \\ REPRODUCTION\ RESULTS\ ON\ FB15k237\ BASED\ ON\ A\ PESSIMISTIC\ RANKING$ 

	MR	MRR (%)	Hits@1 (%)	Hits@3 (%)	Hits@5 (%)	Hits@10 (%)
ConvE	$255.46 \pm 6.16$	$26.93 \pm 0.11$	$18.22 \pm 0.11$		$35.98 \pm 0.16$	$44.95 \pm 0.17$
ConvKB RotatE	$4345.27 \pm 46.99 \\ 191.92 \pm 0.31$	$4.71 \pm 0.23$ $26.42 \pm 0.04$	$3.31 \pm 0.23$ $17.57 \pm 0.06$	$4.04 \pm 0.19$ $28.97 \pm 0.05$	$4.57 \pm 0.22$ $35.29 \pm 0.09$	$7.76 \pm 0.88$ $44.55 \pm 0.06$

 $TABLE\ VII$  Reproduction Results on WN18 Based on an Average Ranking

	MR	MRR (%)	AMR (%)	Hits@1 (%)	Hits@3 (%)	Hits@5 (%)	Hits@10 (%)
ComplEx	$452.67 \pm 63.05$	$19.49 \pm 2.55$	$2.21 \pm 0.31$	$12.36 \pm 1.96$	$20.66 \pm 2.75$	$25.24 \pm 3.33$	$32.92 \pm 4.40$
ConvE	$444.40 \pm 14.82$	$88.81 \pm 0.09$	$2.17 \pm 0.07$	$85.14 \pm 0.10$	$91.76 \pm 0.11$	$93.29 \pm 0.04$	$94.85 \pm 0.06$
DistMult	$458.64 \pm 23.96$	$77.44 \pm 0.22$	$2.24 \pm 0.12$	$67.45 \pm 0.34$	$85.94 \pm 0.21$	$89.52 \pm 0.25$	$92.72 \pm 0.18$
HolE	$812.64 \pm 28.33$	$70.44 \pm 0.45$	$3.97 \pm 0.14$	$59.29 \pm 0.53$	$79.29 \pm 0.47$	$84.12 \pm 0.36$	$88.61 \pm 0.42$
KG2E	$2708.89 \pm 44.57$	$3.61 \pm 0.26$	$13.25 \pm 0.22$	$1.35 \pm 0.22$	$3.21 \pm 0.31$	$4.57 \pm 0.34$	$7.02 \pm 0.43$
RotatE	$123.68 \pm 1.71$	$87.29 \pm 0.12$	$0.61 \pm 0.01$	$82.17 \pm 0.20$	$91.53 \pm 0.12$	$93.44 \pm 0.07$	$95.28 \pm 0.08$
SimplE	$20376.43 \pm 42.30$	$0.04 \pm 0.01$	$99.57 \pm 0.21$	$0.01 \pm 0.01$	$0.03 \pm 0.00$	$0.04 \pm 0.01$	$0.07 \pm 0.03$
TransD	$444.39 \pm 25.61$	$36.22 \pm 0.12$	$2.17 \pm 0.13$	$3.94 \pm 0.27$	$65.63 \pm 0.55$	$79.64 \pm 0.43$	$87.27 \pm 0.41$
TransE	$468.24 \pm 13.64$	$39.19 \pm 1.21$	$2.29 \pm 0.07$	$9.99 \pm 1.82$	$64.74 \pm 0.91$	$75.44 \pm 0.48$	$84.25 \pm 0.33$
TransH	$19678.04 \pm 18.92$	$0.18 \pm 0.04$	$96.16 \pm 0.09$	$0.04 \pm 0.02$	$0.19 \pm 0.10$	$0.29 \pm 0.14$	$0.39 \pm 0.11$
TransR	$19686.49 \pm 100.97$	$0.06 \pm 0.02$	$96.20 \pm 0.49$	$0.00 \pm 0.00$	$0.04 \pm 0.02$	$0.05 \pm 0.03$	$0.11 \pm 0.06$
TuckER	$20622.46\pm153.52$	$0.03 \pm 0.01$	$100.78 \pm 0.75$	$0.00 \pm 0.00$	$0.02 \pm 0.01$	$0.03 \pm 0.03$	$0.04 \pm 0.03$

 $TABLE\ VIII \\ REPRODUCTION\ RESULTS\ ON\ WN18\ BASED\ ON\ AN\ OPTIMISTIC\ RANKING$ 

	MR	MRR (%)	Hits@1 (%)	Hits@3 (%)	Hits@5 (%)	Hits@10 (%)
ComplEx	$452.67 \pm 63.05$	$19.49 \pm 2.55$	$12.36 \pm 1.96$	$20.66 \pm 2.75$	$25.24 \pm 3.33$	$32.92 \pm 4.40$
ConvE	$444.40 \pm 14.82$	$88.81 \pm 0.09$	$85.14 \pm 0.10$	$91.76 \pm 0.11$	$93.29 \pm 0.04$	$94.85 \pm 0.06$
DistMult	$458.64 \pm 23.96$	$77.44 \pm 0.22$	$67.45 \pm 0.34$	$85.94 \pm 0.21$	$89.52 \pm 0.25$	$92.72 \pm 0.18$
HolE	$812.63 \pm 28.33$	$70.44 \pm 0.45$	$59.29 \pm 0.53$	$79.29 \pm 0.47$	$84.12 \pm 0.36$	$88.61 \pm 0.42$
KG2E	$2708.88 \pm 44.57$	$3.61 \pm 0.26$	$1.35 \pm 0.22$	$3.21 \pm 0.31$	$4.57 \pm 0.34$	$7.02 \pm 0.43$
RotatE	$123.68 \pm 1.71$	$87.29 \pm 0.12$	$82.17 \pm 0.20$	$91.53 \pm 0.12$	$93.44 \pm 0.07$	$95.28 \pm 0.08$
SimplE	$384.53 \pm 66.45$	$38.48 \pm 4.00$	$33.93 \pm 4.32$	$39.59 \pm 4.67$	$42.76 \pm 3.73$	$47.01 \pm 2.66$
TransD	$444.39 \pm 25.61$	$36.22 \pm 0.12$	$3.94 \pm 0.27$	$65.63 \pm 0.55$	$79.64 \pm 0.43$	$87.27 \pm 0.41$
TransE	$468.24 \pm 13.64$	$39.19 \pm 1.21$	$9.99 \pm 1.82$	$64.74 \pm 0.91$	$75.44 \pm 0.48$	$84.25 \pm 0.33$
TransH	$19678.02 \pm 18.92$	$0.18 \pm 0.04$	$0.04 \pm 0.02$	$0.19 \pm 0.10$	$0.29 \pm 0.14$	$0.39 \pm 0.11$
TransR	$19686.49 \pm 100.97$	$0.06 \pm 0.02$	$0.00 \pm 0.00$	$0.04 \pm 0.02$	$0.05 \pm 0.03$	$0.11 \pm 0.06$
TuckER	$20622.46 \pm 153.52$	$0.03 \pm 0.01$	$0.00 \pm 0.00$	$0.02 \pm 0.01$	$0.03 \pm 0.03$	$0.04 \pm 0.03$

	MR	MRR (%)	Hits@1 (%)	Hits@3 (%)	Hits@5 (%)	Hits@10 (%)
ComplEx	$452.67 \pm 63.05$	$19.49 \pm 2.55$	$12.36 \pm 1.96$	$20.66 \pm 2.75$	$25.24 \pm 3.33$	$32.92 \pm 4.40$
ConvE	$444.40 \pm 14.82$	$88.81 \pm 0.09$	$85.14 \pm 0.10$	$91.76 \pm 0.11$	$93.29 \pm 0.04$	$94.85 \pm 0.06$
DistMult	$458.64 \pm 23.96$	$77.44 \pm 0.22$	$67.45 \pm 0.34$	$85.94 \pm 0.21$	$89.52 \pm 0.25$	$92.72 \pm 0.18$
HolE	$812.63 \pm 28.33$	$70.44 \pm 0.45$	$59.29 \pm 0.53$	$79.29 \pm 0.47$	$84.12 \pm 0.36$	$88.61 \pm 0.42$
KG2E	$2708.88 \pm 44.57$	$3.61 \pm 0.26$	$1.35 \pm 0.22$	$3.21 \pm 0.31$	$4.57 \pm 0.34$	$7.02 \pm 0.43$
RotatE	$123.68 \pm 1.71$	$87.29 \pm 0.12$	$82.17 \pm 0.20$	$91.53 \pm 0.12$	$93.44 \pm 0.07$	$95.28 \pm 0.08$
SimplE	$384.53 \pm 66.45$	$38.48 \pm 4.00$	$33.93 \pm 4.32$	$39.59 \pm 4.67$	$42.76 \pm 3.73$	$47.01 \pm 2.66$
TransD	$444.39 \pm 25.61$	$36.22 \pm 0.12$	$3.94 \pm 0.27$	$65.63 \pm 0.55$	$79.64 \pm 0.43$	$87.27 \pm 0.41$
TransE	$468.24 \pm 13.64$	$39.19 \pm 1.21$	$9.99 \pm 1.82$	$64.74 \pm 0.91$	$75.44 \pm 0.48$	$84.25 \pm 0.33$
TransH	$19678.02 \pm 18.92$	$0.18 \pm 0.04$	$0.04 \pm 0.02$	$0.19 \pm 0.10$	$0.29 \pm 0.14$	$0.39 \pm 0.11$
TransR	$19686.49 \pm 100.97$	$0.06 \pm 0.02$	$0.00 \pm 0.00$	$0.04 \pm 0.02$	$0.05\pm0.03$	$0.11 \pm 0.06$
TuckER	$20622.46\pm153.52$	$0.03 \pm 0.01$	$0.00 \pm 0.00$	$0.02 \pm 0.01$	$0.03 \pm 0.03$	$0.04 \pm 0.03$

 $\label{eq:table} TABLE~X$  Reproduction Results on WN18RR Based on an Average Ranking

	MR	MRR (%)	AMR (%)	Hits@1 (%)	Hits@3 (%)	Hits@5 (%)	Hits@10 (%)
ConvE ConvKB RotatE	$5369.49 \pm 50.92$ $13634.66 \pm 714.24$ $4263.32 \pm 90.33$	$0.30 \pm 0.07$	$26.49 \pm 0.25$ $67.27 \pm 3.52$ $21.03 \pm 0.45$	$40.98 \pm 0.22$ $0.09 \pm 0.03$ $44.02 \pm 0.15$	$46.49 \pm 0.14 \\ 0.21 \pm 0.07 \\ 50.55 \pm 0.12$	$48.92 \pm 0.23$ $0.32 \pm 0.10$ $52.98 \pm 0.11$	$51.76 \pm 0.13$ $0.57 \pm 0.16$ $56.51 \pm 0.26$

	MR	MRR (%)	Hits@1 (%)	Hits@3 (%)	Hits@5 (%)	Hits@10 (%)
ConvE	$5369.49 \pm 50.92$	$44.69 \pm 0.21$	$40.98 \pm 0.22$	$46.49 \pm 0.14$	$48.92 \pm 0.23$	$51.76 \pm 0.13$
ConvKB	$13634.65 \pm 714.24$	$0.30 \pm 0.07$	$0.09 \pm 0.03$	$0.21 \pm 0.07$	$0.32 \pm 0.10$	$0.57 \pm 0.16$
RotatE	$4263.32 \pm 90.33$	$48.40 \pm 0.09$	$44.02 \pm 0.15$	$50.55 \pm 0.12$	$52.98 \pm 0.11$	$56.51 \pm 0.26$

	MR	MRR (%)	Hits@1 (%)	Hits@3 (%)	Hits@5 (%)	Hits@10 (%)
ConvE	$5369.49 \pm 50.92$	$44.69 \pm 0.21$	$40.98 \pm 0.22$	$46.49 \pm 0.14$	$48.92 \pm 0.23$	$51.76 \pm 0.13$
ConvKB	$13634.65 \pm 714.24$	$0.30 \pm 0.07$	$0.09 \pm 0.03$	$0.21 \pm 0.07$	$0.32 \pm 0.10$	$0.57 \pm 0.16$
RotatE	$4263.32 \pm 90.33$	$48.40 \pm 0.09$	$44.02 \pm 0.15$	$50.55 \pm 0.12$	$52.98 \pm 0.11$	$56.51 \pm 0.26$