

Progress Report

Pranav Bangarbale - 4/15/2022

This week

- Confirmed last week's plots with further runs of Method 2 with BKM-10, and the same angle parameters (baseline, reduced-phi, even-phi)
- Generated *quantitative* set-by-set, CFF-by-CFF comparisons which can quantify the differences between the three angle parameters tested on BKM-10
- TRAINING: BKM-10, 1500 epochs

Statistics - CFF by CFF

	Avg. Deviation (rounded to 3 sig. figs for readability)		
Angle	REH	REE	REHTILDE
Baseline	2.68	27.3	3.68
Reduced-Phi	5.63	42.4	4.10
Even-Phi	4.52	36.1	3.63

NOTE: Relatively little information loss from reduced angle compared to other CFFs. Interesting how REHTILDE predictions for even-phi were slightly better than baseline.

Deviation - Set by Set

REH

Set	Baseline	Reduced -Phi	Even-Phi
1	5.31	4.73	5.04
2	3.24	8.91	5.68
3	3.97	6.46	6.02
4	10.9	6.87	6.09
5	0.536	6.56	6.45
6	1.63	6.83	6.76
7	0.267	6.02	5.21
8	7.82	4.54	4.56
9	1.06	6.74	5.04
10	3.31	6.09	4.78
11	1.04	6.98	3.45
12	2.09	2.10	2.00
13	2.16	6.54	3.43
14	0.593	6.97	3.45
15	1.45	5.73	2.73

REE

Set	Baseline	Reduced -Phi	Even-Phi
1	19.5	25.5	22.3
2	21.8	26.8	24.4
3	84.2	90.2	84.3
4	25.3	24.3	29.2
5	22.3	50.1	35.4
6	18.5	70.3	45.6
7	54.3	65.3	54.3
8	25.4	80.3	67.7
9	27.6	30.2	28.9
10	17.5	25.4	20.2
11	30.1	39.1	33.7
12	20.2	29.2	26.8
13	9.78	12.9	11.4
14	20.3	22.3	20.5
15	20.5	26.8	25.5

REHTILDE

Set	Baseline	Reduced -Phi	Even-Phi
1	3.46	4.57	2.47
2	4.75	4.30	4.03
3	10.03	9.03	8.92
4	4.07	15.0	4.17
5	5.78	6.98	5.98
6	0.541	1.65	0.332
7	4.08	3.22	4.45
8	4.83	3.59	3.09
9	2.10	1.96	1.53
10	2.57	2.54	1.04
11	4.90	6.03	4.36
12	1.05	0.832	3.06
13	2.04	1.06	3.08
14	4.54	7.64	6.75
15	3.06	5.09	0.883