SUPPLEMENTARY MATERIALS: TRIPLE PRODUCTS OF CORRELATED MULTIVARIATE HERMITE POLYNOMIALS*

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In this supplement, we provide the data tables (Table SM1 and Table SM2) corresponding to the numerical results in section 7 of the main article.

Table SM1: Triple products $\langle H_{\boldsymbol{\alpha}}, H_{\boldsymbol{\beta}}, H_{\boldsymbol{\gamma}} \rangle$ for $\boldsymbol{\alpha}, \boldsymbol{\beta}, \boldsymbol{\gamma} \in \mathbb{N}_0^2$ such that $|\boldsymbol{\alpha}|, |\boldsymbol{\beta}|, |\boldsymbol{\gamma}| \leq M$ for $M = 2$. The theoretical/predicted values of $\langle H_{\boldsymbol{\alpha}}, H_{\boldsymbol{\beta}}, H_{\boldsymbol{\gamma}} \rangle$ are computed by the formula in Theorem 6.2 and compared against the sample mean $S_{\mathcal{N}}$ for $\mathcal{N} = 10^4, 10^5, \ldots, 10^8$ realizations of $\boldsymbol{\xi}^{(i)} \sim \mathcal{N}(\mathbf{0}, \Sigma)$. The covariance Σ is 2×2 with $\Sigma_{11} = \Sigma_{22} = 1$ and $\Sigma_{12} = \Sigma_{21} = -\frac{1}{2}$. Nonzero values are rounded to 4 significant figures.

$\boldsymbol{\alpha}$	$\boldsymbol{\beta}$	$\boldsymbol{\gamma}$	$\langle H_{\boldsymbol{\alpha}}, H_{\boldsymbol{\beta}}, H_{\boldsymbol{\gamma}} \rangle$ by Formula	$\mathcal{N} = 10^4$	$\mathcal{N} = 10^5$	$\mathcal{N} = 10^6$	$\mathcal{N} = 10^7$	$\mathcal{N} = 10^8$
(0,0)	(0,0)	(0,0)	1	1	1	1	1	1
(0,0)	(0,0)	(0,1)	0	-0.001812	-0.003172	0.0009660	-0 .0004594	-0.00006095
(0,0)	(0,0)	(1,0)	0	-0.009542	-0.002012	0.0002472	-0.0008101	-0.0001342
(0,0)	(0,1)	(0,1)	1.333	1.304	1.327	1.331	1.333	1.333
(0,0)	(0,1)	(1,0)	0.6667	0.6662	0.6678	0.6663	0.6662	0.6666
(0,0)	(1,0)	(1,0)	1.333	1.368	1.333	1.335	1.3334	1.333
(0,1)	(0,1)	(0,1)	0	-0.05911	-0.01062	-0.003252	-0.002506	-0.0008821
(0,1)	(0,1)	(1,0)	0	-0.02479	-0.006444	-0.004386	-0.003259	-0.0005723
(0,1)	(1,0)	(1,0)	0	-0.006862	-0.01785	-0.002888	-0.003221	-0.0005601
(1,0)	(1,0)	(1,0)	0	-0.04782	-0.02083	-0.0005127	-0.004940	-0.0007471
(0,0)	(0,0)	(0,2)	0	-0.02962	-0.006665	-0.002527	-0.0005021	0.0001250
(0,0)	(0,0)	(1,1)	0	-0.0004508	0.001095	-0.0004006	-0.0004318	-0.0001357
(0,0)	(0,0)	(2,0)	0	0.03487	-0.0002084	0.001214	0.0003764	-0.0003930
(0,0)	(0,1)	(0,2)	0	-0.05670	-0.0063931	-0.004540	-0.001894	-0.0008008
(0,0)	(0,1)	(1,1)	0	-0.02358	-0.004329	-0.005030	-0.002953	-0.0005317
(0,0)	(0,1)	(2,0)	0	-0.004446	-0.01362	-0.004176	-0.002609	-0.0004788
(0,0)	(1,0)	(0,2)	0	-0.01207	-0.003761	-0.004715	-0.002179	-0.0003933
(0,0)	(1,0)	(1,1)	0	-0.0005012	-0.01650	-0.003053	-0.002681	-0.0004706
(0,0)	(1,0)	(2,0)	0	-0.03510	-0.01815	-0.0008422	-0.003860	-0.0005682
(0,0)	(0,2)	(0,2)	3.556	3.414	3.466	3.530	3.554	3.556
(0,0)	(0,2)	(1,1)	1.778	1.710	1.754	1.768	1.774	1.777
(0,0)	(0,2)	(2,0)	0.8889	0.8419	0.8823	0.8854	0.8850	0.8884
(0,0)	(1,1)	(1,1)	2.222	2.183	2.205	2.218	2.219	2.222
(0,0)	(1,1)	(2,0)	1.778	1.833	1.765	1.777	1.774	1.776
(0,0)	(2,0)	(2,0)	3.556	3.903	3.541	3.565	3.556	3.554
(0,1)	(0,1)	(0,2)	3.556	3.374	3.457	3.526	3.553	3.556
(0,1)	(0,1)	(1,1)	1.778	1.709	1.755	1.768	1.773	1.777
(0,1)	(0,1)	(2,0)	0.8889	0.8884	0.8820	0.8870	0.8855	0.8879
(0,1)	(1,0)	(0,2)	1.778	1.690	1.749	1.767	1.774	1.777
(0,1)	(1,0)	(1,1)	2.222	2.183	2.206	2.217	2.218	2.222
(0,1)	(1,0)	(2,0)	1.778	1.856	1.7652	1.778	1.775	1.776
(0,1)	(0,2)	(0,2)	0	-0.2729	-0.001397	-0.05745	-0.01581	-0.007622
(0,1)	(0,2)	(1,1)	0	-0.02442	-0.002411	-0.02901	-0.01569	-0.004676
(0,1)	(0,2)	(2,0)	0	0.06429	-0.04859	-0.02505	-0.01352	-0.003305
(0,1)	(1,1)	(1,1)	0	0.01179	-0.07372	-0.02868	-0.01620	-0.004383
(0,1)	(1,1)	(2,0)	0	-0.01128	-0.08527	-0.02361	-0.01421	-0.002523
(0,1)	(2,0)	(2,0)	0	-0.08561	-0.1310	-0.01130	-0.01541	-0.002609
(1,0)	(1,0)	(0,2)	0.8889	0.8024	0.8734	0.8820	0.8843	0.8886
(1,0)	(1,0)	(1,1)	1.778	1.832	1.767	1.777	1.774	1.776
(1,0)	(1,0)	(2,0)	3.556	3.949	3.541	3.566	3.556	3.553
(1,0)	(0,2)	(0,2)	0	-0.04612	-0.001659	-0.02575	-0.01405	-0.004685
(1,0)	(0,2)	(1,1)	0	-0.003262	-0.05460	-0.02796	-0.01459	-0.004110
(1,0)	(0,2)	(2,0)	0	0.03255	-0.07015	-0.02527	-0.01080	-0.002085
(1,0)	(1,1)	(1,1)	0	-0.04239	-0.08004	-0.02828	-0.01636	-0.002918
(1,0)	(1,1)	(2,0)	0	-0.06814	-0.1371	-0.01630	-0.01632	-0.002869
(1,0)	(2,0)	(2,0)	0	-0.6203	-0.1926	0.009668	-0.03271	-0.005026
(0,2)	(0,2)	(0,2)	18.96	17.20	17.83	18.60	18.97	18.95
(0,2)	(0,2)	(1,1)	9.481	8.217	9.093	9.324	9.444	9.477
(0,2)	(0,2)	(2,0)	4.740	3.912	4.610	4.676	4.703	4.738
(0,2)	(1,1)	(1,1)	8.296	7.267	8.060	8.201	8.255	8.294
(0,2)	(1,1)	(2,0)	5.926	5.401	5.791	5.871	5.888	5.923
(0,2)	(2,0)	(2,0)	4.740	4.319	4.591	4.6789	4.700	4.7363
(1,1)	(1,1)	(1,1)	7.704	7.214	7.545	7.642	7.660	7.700
(1,1)	(1,1)	(2,0)	8.296	8.248	8.135	8.244	8.255	8.290
(1,1)	(2,0)	(2,0)	9.481	10.10	9.199	9.432	9.4328	9.471
(2,0)	(2,0)	(2,0)	18.96	23.51	18.55	19.00	18.92	18.95

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Table SM2: Triple products $\langle H_{\boldsymbol{\alpha}}, H_{\boldsymbol{\beta}}, H_{\boldsymbol{\gamma}} \rangle$ for $\boldsymbol{\alpha}, \boldsymbol{\beta}, \boldsymbol{\gamma} \in \mathbb{N}_0^3$ such that $0 < |\boldsymbol{\alpha}|, |\boldsymbol{\beta}|, |\boldsymbol{\gamma}| \leq M$ for $M = 2$. The theoretical/predicted values of $\langle H_{\boldsymbol{\alpha}}, H_{\boldsymbol{\beta}}, H_{\boldsymbol{\gamma}} \rangle$ are computed by the formula in Theorem 6.2 and compared against the sample mean $S_{\mathcal{N}}$ for $\mathcal{N} = 10^4, 10^5, \ldots, 10^8$ realizations of $\boldsymbol{\xi}^{(i)} \sim \mathcal{N}(\mathbf{0}, \Sigma)$. The covariance Σ is 3×3 with $\Sigma_{11} = \Sigma_{22} = \Sigma_{33} = 1$, $\Sigma_{12} = \Sigma_{21} = \frac{1}{5}$, $\Sigma_{13} = \Sigma_{31} = \frac{2}{5}$, and $\Sigma_{23} = \Sigma_{32} = \frac{4}{5}$. All products including one or more $H_{\mathbf{0}} = 1$ are omitted, since they reduce to single or double products. Nonzero values are rounded to 4 significant figures.

$\boldsymbol{\alpha}$	$\boldsymbol{\beta}$	$\boldsymbol{\gamma}$	$\langle H_{\boldsymbol{\alpha}}, H_{\boldsymbol{\beta}}, H_{\boldsymbol{\gamma}} \rangle$ by Formula	$\mathcal{N} = 10^4$	$\mathcal{N} = 10^5$	$\mathcal{N} = 10^6$	$\mathcal{N} = 10^7$	$\mathcal{N} = 10^8$
(0,0,1)	(0,0,1)	(0,0,1)	0	0.06190	-0.04005	-0.006368	-0.004591	-0.001244
(0,0,1)	(0,0,1)	(0,1,0)	0	-0.08195	0.01006	-0.004880	0.001931	-0.00003667
(0,0,1)	(0,0,1)	(1,0,0)	0	-0.03677	0.01567	0.001010	0.002065	0.001509
(0,0,1)	(0,0,1)	(0,0,2)	22.22	23.09	22.53	22.40	22.24	22.23
(0,0,1)	(0,0,1)	(0,1,1)	-16.67	-17.63	-16.84	-16.79	-16.69	-16.67
(0,0,1)	(0,0,1)	(0,2,0)	12.50	13.51	12.56	12.58	12.53	12.50
(0,0,1)	(0,0,1)	(1,0,1)	-5.556	-5.413	-5.639	-5.562	-5.558	-5.554
(0,0,1)	(0,0,1)	(1,1,0)	4.167	4.142	4.228	4.174	4.171	4.166
(0,0,1)	(0,0,1)	(2,0,0)	1.389	1.340	1.384	1.377	1.390	1.389
(0,0,1)	(0,1,0)	(0,1,0)	0	0.09394	0.009280	0.007570	0.0006674	0.0007979
(0,0,1)	(0,1,0)	(1,0,0)	0	0.03380	-0.005444	0.0009105	-0.001840	-0.001255
(0,0,1)	(0,1,0)	(0,0,2)	-16.67	-17.60	-16.85	-16.79	-16.69	-16.67
(0,0,1)	(0,1,0)	(0,1,1)	15.97	17.04	16.05	16.06	16.00	15.98
(0,0,1)	(0,1,0)	(0,2,0)	-14.58	-15.83	-14.60	-14.65	-14.61	-14.59
(0,0,1)	(0,1,0)	(1,0,1)	3.472	3.426	3.533	3.478	3.475	3.471
(0,0,1)	(0,1,0)	(1,1,0)	-3.472	-3.485	-3.500	-3.478	-3.476	-3.472
(0,0,1)	(0,1,0)	(2,0,0)	-0.6944	-0.7278	-0.7068	-0.6920	-0.6958	-0.6949
(0,0,1)	(1,0,0)	(1,0,0)	0	0.06006	-0.0002840	0.001621	0.0004985	-0.0004325
(0,0,1)	(1,0,0)	(0,0,2)	-5.556	-5.482	-5.648	-5.569	-5.559	-5.555
(0,0,1)	(1,0,0)	(0,1,1)	3.472	3.484	3.538	3.484	3.477	3.472
(0,0,1)	(1,0,0)	(0,2,0)	-2.083	-2.130	-2.113	-2.092	-2.087	-2.083
(0,0,1)	(1,0,0)	(1,0,1)	4.861	4.903	4.869	4.861	4.864	4.861
(0,0,1)	(1,0,0)	(1,1,0)	-3.472	-3.584	-3.491	-3.478	-3.477	-3.473
(0,0,1)	(1,0,0)	(2,0,0)	-2.083	-2.104	-2.075	-2.079	-2.083	-2.083
(0,0,1)	(0,0,2)	(0,0,2)	0	7.658	-1.328	-0.3399	-0.1880	0.002532
(0,0,1)	(0,0,2)	(0,1,1)	0	-6.382	0.6111	0.1934	0.1237	-0.01395
(0,0,1)	(0,0,2)	(0,2,0)	0	5.365	-0.1935	-0.1228	-0.06942	0.01872
(0,0,1)	(0,0,2)	(1,0,1)	0	-0.2626	0.6732	0.1585	0.06718	0.02034
(0,0,1)	(0,0,2)	(1,1,0)	0	0.6785	-0.3150	-0.08467	-0.04995	-0.01417
(0,0,1)	(0,0,2)	(2,0,0)	0	-0.2968	-0.2542	-0.05206	-0.001004	-0.01036
(0,0,1)	(0,1,1)	(0,1,1)	0	5.413	-0.2378	-0.1381	-0.07008	0.01804
(0,0,1)	(0,1,1)	(0,2,0)	0	-4.415	-0.07394	0.1256	0.02112	-0.01943
(0,0,1)	(0,1,1)	(1,0,1)	0	0.6640	-0.3005	-0.08633	-0.05140	-0.01523
(0,0,1)	(0,1,1)	(1,1,0)	0	-0.9999	0.1409	0.04673	0.03831	0.01213
(0,0,1)	(0,1,1)	(2,0,0)	0	0.1827	0.1114	0.03001	0.001144	0.008025
(0,0,1)	(0,2,0)	(0,2,0)	0	3.398	0.3430	-0.1677	0.02700	0.02030
(0,0,1)	(0,2,0)	(1,0,1)	0	-0.9476	0.1172	0.04676	0.03859	0.01171
(0,0,1)	(0,2,0)	(1,1,0)	0	1.193	-0.01199	-0.03179	-0.02977	-0.01127
(0,0,1)	(0,2,0)	(2,0,0)	0	-0.1294	-0.05081	-0.009562	-0.0001229	-0.005762
(0,0,1)	(1,0,1)	(1,0,1)	0	-0.1168	-0.2878	-0.05046	-0.0007869	-0.01037
(0,0,1)	(1,0,1)	(1,1,0)	0	0.002716	0.1206	0.01822	-0.0007633	0.007007
(0,0,1)	(1,0,1)	(2,0,0)	0	-0.3683	0.09781	-0.0009804	-0.01017	0.007549
(0,0,1)	(1,1,0)	(1,1,0)	0	0.09867	-0.04418	0.006338	0.004551	-0.004507
(0,0,1)	(1,1,0)	(2,0,0)	0	0.2503	-0.04796	-0.0004651	0.004057	-0.006029
(0,0,1)	(2,0,0)	(2,0,0)	0	0.6056	-0.02860	0.02529	0.01309	-0.005069
(0,1,0)	(0,1,0)	(0,1,0)	0	-0.07858	-0.02711	-0.01061	-0.003153	-0.001360
(0,1,0)	(0,1,0)	(1,0,0)	0	-0.05043	0.001298	-0.003060	0.0008703	0.001047
(0,1,0)	(0,1,0)	(0,0,2)	12.50	13.56	12.57	12.59	12.52	12.50
(0,1,0)	(0,1,0)	(0,1,1)	-14.58	-15.89	-14.61	-14.66	-14.61	-14.59
(0,1,0)	(0,1,0)	(0,2,0)	17.01	18.54	17.04	17.08	17.05	17.02
(0,1,0)	(0,1,0)	(1,0,1)	-2.083	-2.081	-2.109	-2.088	-2.085	-2.083
(0,1,0)	(0,1,0)	(1,1,0)	2.431	2.513	2.422	2.438	2.434	2.430
(0,1,0)	(0,1,0)	(2,0,0)	0.3472	0.3884	0.3469	0.3445	0.3480	0.3478
(0,1,0)	(1,0,0)	(1,0,0)	0	-0.05519	-0.007570	-0.002690	0.0004015	0.0004123
(0,1,0)	(1,0,0)	(0,0,2)	4.167	4.149	4.231	4.176	4.170	4.166
(0,1,0)	(1,0,0)	(0,1,1)	-3.472	-3.494	-3.501	-3.479	-3.475	-3.472
(0,1,0)	(1,0,0)	(0,2,0)	2.431	2.513	2.423	2.438	2.434	2.430
(0,1,0)	(1,0,0)	(1,0,1)	-3.472	-3.577	-3.491	-3.478	-3.476	-3.473
(0,1,0)	(1,0,0)	(1,1,0)	3.819	3.919	3.825	3.823	3.824	3.820
(0,1,0)	(1,0,0)	(2,0,0)	1.042	1.143	1.051	1.046	1.041	1.042
(0,1,0)	(0,0,2)	(0,0,2)	0	-6.326	0.6774	0.2027	0.1280	-0.01169
(0,1,0)	(0,0,2)	(0,1,1)	0	5.352	-0.2936	-0.1339	-0.07654	0.01620
(0,1,0)	(0,0,2)	(0,2,0)	0	-4.443	-0.007049	0.1219	0.02928	-0.01773
(0,1,0)	(0,0,2)	(1,0,1)	0	0.6590	-0.3214	-0.08614	-0.05023	-0.01458
(0,1,0)	(0,0,2)	(1,1,0)	0	-0.9242	0.1501	0.05178	0.03991	0.01166
(0,1,0)	(0,0,2)	(2,0,0)	0	0.1929	0.1372	0.02630	-0.001734	0.007370
(0,1,0)	(0,1,1)	(0,1,1)	0	-4.427	-0.01505	0.1155	0.02734	-0.01844
(0,1,0)	(0,1,1)	(0,2,0)	0	3.485	0.2949	-0.1549	0.02232	0.02028
(0,1,0)	(0,1,1)	(1,0,1)	0	-0.9731	0.1514	0.04706	0.03965	0.01267
(0,1,0)	(0,1,1)	(1,1,0)	0	1.167	-0.02568	-0.03432	-0.03278	-0.01217
(0,1,0)	(0,1,1)	(2,0,0)	0	-0.08810	-0.07373	-0.004169	0.002875	-0.005544
(0,1,0)	(0,2,0)	(0,2,0)	0	-2.369	-0.5944	0.2549	-0.07708	-0.02314
(0,1,0)	(0,2,0)	(1,0,1)	0	1.187	-0.02913	-0.03289	-0.03209	-0.01195
(0,1,0)	(0,2,0)	(1,1,0)	0	-1.491	-0.08511	0.02597	0.02418	0.01235
(0,1,0)	(0,2,0)	(2,0,0)	0	0.07133	0.02692	-0.004560	-0.001593	0.004759
(0,1,0)	(1,0,1)	(1,0,1)	0	0.009810	0.1221	0.01808	-0.001443	0.006553
(0,1,0)	(1,0,1)	(1,1,0)	0	0.07361	-0.04514	0.004824	0.004513	-0.004140
(0,1,0)	(1,0,1)	(2,0,0)	0	0.2380	-0.05370	-0.00006177	0.004609	-0.005811
(0,1,0)	(1,1,0)	(1,1,0)	0	-0.09887	-0.02352	-0.01779	-0.005483	0.003336
(0,1,0)	(1,1,0)	(2,0,0)	0	-0.2706	0.04342	-0.01552	-0.004662	0.004820
(0,1,0)	(2,0,0)	(2,0,0)	0	-0.3063	0.01877	-0.01406	-0.006504	0.003025
(1,0,0)	(1,0,0)	(1,0,0)	0	-0.1220	-0.004610	-0.002305	-0.001515	0.0007549
(1,0,0)	(1,0,0)	(0,0,2)	1.389	1.443	1.421	1.395	1.390	1.389
(1,0,0)	(1,0,0)	(0,1,1)	-0.6944	-0.8153	-0.7310	-0.7051	-0.6975	-0.6949
(1,0,0)	(1,0,0)	(0,2,0)	0.3472	0.4613	0.3736	0.3568	0.3500	0.3479
(1,0,0)	(1,0,0)	(1,0,1)	-2.083	-2.104	-2.080	-2.081	-2.083	-2.083

(1,0,0)	(1,0,0)	(1,1,0)	1.042	1.154	1.055	1.047	1.042	1.042
(1,0,0)	(1,0,0)	(2,0,0)	3.125	3.132	3.091	3.121	3.127	3.125
(1,0,0)	(0,0,2)	(0,0,2)	0	-0.3384	0.6484	0.1466	0.06187	0.01716
(1,0,0)	(0,0,2)	(0,1,1)	0	0.7298	-0.2862	-0.07494	-0.04519	-0.01162
(1,0,0)	(0,0,2)	(0,2,0)	0	-0.9862	0.09992	0.03857	0.03317	0.008262
(1,0,0)	(0,0,2)	(1,0,1)	0	-0.2497	-0.2984	-0.05326	-0.003607	-0.01039
(1,0,0)	(0,0,2)	(1,1,0)	0	0.1402	0.1496	0.02470	-0.0008491	0.006781
(1,0,0)	(0,0,2)	(2,0,0)	0	-0.06665	0.1112	0.0001739	-0.006378	0.005697
(1,0,0)	(0,1,1)	(0,1,1)	0	-1.038	0.1268	0.03957	0.03338	0.009503
(1,0,0)	(0,1,1)	(0,2,0)	0	1.209	0.0005730	-0.02766	-0.02599	-0.008940
(1,0,0)	(0,1,1)	(1,0,1)	0	0.1082	0.1248	0.02022	0.0009646	0.006731
(1,0,0)	(0,1,1)	(1,1,0)	0	-0.01054	-0.06460	0.001226	0.004977	-0.004088
(1,0,0)	(0,1,1)	(2,0,0)	0	0.01426	-0.05726	-0.001854	0.001046	-0.004586
(1,0,0)	(0,2,0)	(0,2,0)	0	-1.495	-0.1078	0.02328	0.01899	0.009628
(1,0,0)	(0,2,0)	(1,0,1)	0	-0.05371	-0.04441	0.002530	0.002674	-0.003656
(1,0,0)	(0,2,0)	(1,1,0)	0	0.02418	-0.001987	-0.01225	-0.006482	0.002697
(1,0,0)	(0,2,0)	(2,0,0)	0	0.01167	0.05045	-0.01300	-0.0006495	0.003172
(1,0,0)	(1,0,1)	(1,0,1)	0	-0.3643	0.1190	0.0001537	-0.007527	0.009007
(1,0,0)	(1,0,1)	(1,1,0)	0	0.2466	-0.06197	-0.0008284	0.002269	-0.007221
(1,0,0)	(1,0,1)	(2,0,0)	0	0.5791	-0.03549	0.02761	0.01298	-0.004879
(1,0,0)	(1,1,0)	(1,1,0)	0	-0.3063	0.04898	-0.01761	-0.003825	0.005967
(1,0,0)	(1,1,0)	(2,0,0)	0	-0.3116	0.01360	-0.01462	-0.005621	0.003257
(1,0,0)	(2,0,0)	(2,0,0)	0	-0.8935	-0.006754	-0.02816	-0.01855	0.005651
(0,0,2)	(0,0,2)	(0,0,2)	296.3	321.4	308.1	300.5	296.8	296.5
(0,0,2)	(0,0,2)	(0,1,1)	-222.2	-251.6	-230.9	-225.0	-222.8	-222.4
(0,0,2)	(0,0,2)	(0,2,0)	166.7	198.3	172.8	168.4	167.2	166.8
(0,0,2)	(0,0,2)	(1,0,1)	-74.07	-74.18	-77.17	-74.46	-74.15	-74.07
(0,0,2)	(0,0,2)	(1,1,0)	55.56	58.27	57.91	55.94	55.67	55.57
(0,0,2)	(0,0,2)	(2,0,0)	18.52	17.88	19.25	18.50	18.51	18.51
(0,0,2)	(0,1,1)	(0,1,1)	189.8	222.6	196.2	191.7	190.3	190.0
(0,0,2)	(0,1,1)	(0,2,0)	-159.7	-194.8	-164.3	-161.0	-160.2	-159.9
(0,0,2)	(0,1,1)	(1,0,1)	50.93	53.39	53.25	51.29	51.03	50.94
(0,0,2)	(0,1,1)	(1,1,0)	-43.98	-47.99	-45.74	-44.35	-44.11	-44.00
(0,0,2)	(0,1,1)	(2,0,0)	-11.57	-12.08	-12.09	-11.65	-11.59	-11.58
(0,0,2)	(0,2,0)	(0,2,0)	145.8	183.9	149.3	146.7	146.2	146.0
(0,0,2)	(0,2,0)	(1,0,1)	-34.72	-38.51	-36.41	-35.06	-34.84	-34.74
(0,0,2)	(0,2,0)	(1,1,0)	34.72	39.64	36.03	35.07	34.85	34.74
(0,0,2)	(0,2,0)	(2,0,0)	6.944	8.036	7.386	7.092	6.979	6.957
(0,0,2)	(1,0,1)	(1,0,1)	41.67	42.17	42.71	41.84	41.68	41.67
(0,0,2)	(1,0,1)	(1,1,0)	-30.09	-31.75	-30.79	-30.29	-30.13	-30.10
(0,0,2)	(1,0,1)	(2,0,0)	-16.20	-15.27	-16.62	-16.22	-16.19	-16.20
(0,0,2)	(1,1,0)	(1,1,0)	23.15	25.49	23.68	23.38	23.21	23.16
(0,0,2)	(1,1,0)	(2,0,0)	11.57	11.11	11.79	11.62	11.57	11.58
(0,0,2)	(2,0,0)	(2,0,0)	6.944	6.918	7.279	6.965	6.930	6.944
(0,1,1)	(0,1,1)	(0,1,1)	-177.1	-213.8	-181.9	-178.5	-177.6	-177.2
(0,1,1)	(0,1,1)	(0,2,0)	166.1	205.8	169.7	167.1	166.5	166.3
(0,1,1)	(0,1,1)	(1,0,1)	-40.51	-44.12	-42.22	-40.85	-40.63	-40.52
(0,1,1)	(0,1,1)	(1,1,0)	37.62	42.65	38.94	37.98	37.75	37.63
(0,1,1)	(0,1,1)	(2,0,0)	8.681	9.615	9.071	8.805	8.712	8.692
(0,1,1)	(0,2,0)	(0,2,0)	-170.1	-214.4	-173.2	-170.9	-170.6	-170.3
(0,1,1)	(0,2,0)	(1,0,1)	30.67	35.16	31.89	31.00	30.79	30.68
(0,1,1)	(0,2,0)	(1,1,0)	-32.41	-38.07	-33.35	-32.77	-32.54	-32.42
(0,1,1)	(0,2,0)	(2,0,0)	-5.787	-7.216	-6.163	-5.969	-5.836	-5.800
(0,1,1)	(1,0,1)	(1,0,1)	-28.94	-30.81	-29.66	-29.15	-28.98	-28.95
(0,1,1)	(1,0,1)	(1,1,0)	26.04	28.41	26.55	26.27	26.10	26.06
(0,1,1)	(1,0,1)	(2,0,0)	9.838	9.616	10.09	9.908	9.834	9.847
(0,1,1)	(1,1,0)	(1,1,0)	-23.15	-26.33	-23.62	-23.43	-23.23	-23.17
(0,1,1)	(1,1,0)	(2,0,0)	-9.259	-9.085	-9.375	-9.347	-9.263	-9.270
(0,1,1)	(2,0,0)	(2,0,0)	-3.472	-3.812	-3.750	-3.540	-3.465	-3.478
(0,2,0)	(0,2,0)	(0,2,0)	198.5	250.2	201.7	199.1	199.0	198.7
(0,2,0)	(0,2,0)	(1,0,1)	-24.31	-29.35	-25.14	-24.64	-24.42	-24.31
(0,2,0)	(0,2,0)	(1,1,0)	28.36	34.66	28.96	28.80	28.48	28.36
(0,2,0)	(0,2,0)	(2,0,0)	4.051	5.920	4.371	4.252	4.111	4.061
(0,2,0)	(1,0,1)	(1,0,1)	20.25	22.74	20.79	20.50	20.32	20.27
(0,2,0)	(1,0,1)	(1,1,0)	-21.99	-25.04	-22.44	-22.26	-22.07	-22.01
(0,2,0)	(1,0,1)	(2,0,0)	-5.787	-5.782	-5.949	-5.895	-5.792	-5.799
(0,2,0)	(1,1,0)	(1,1,0)	24.31	28.17	24.73	24.59	24.41	24.33
(0,2,0)	(1,1,0)	(2,0,0)	6.366	6.548	6.484	6.511	6.378	6.378
(0,2,0)	(2,0,0)	(2,0,0)	1.736	1.896	1.900	1.805	1.732	1.742
(1,0,1)	(1,0,1)	(1,0,1)	-21.99	-20.88	-22.49	-22.01	-21.97	-21.99
(1,0,1)	(1,0,1)	(1,1,0)	14.47	14.14	14.77	14.53	14.46	14.47
(1,0,1)	(1,0,1)	(2,0,0)	15.63	15.54	15.88	15.63	15.62	15.62
(1,0,1)	(1,1,0)	(1,1,0)	-11.57	-11.55	-11.74	-11.68	-11.58	-11.58
(1,0,1)	(1,1,0)	(2,0,0)	-10.42	-10.73	-10.64	-10.48	-10.41	-10.42
(1,0,1)	(2,0,0)	(2,0,0)	-10.42	-10.92	-10.60	-10.38	-10.39	-10.41
(1,1,0)	(1,1,0)	(1,1,0)	9.259	9.766	9.399	9.424	9.270	9.271
(1,1,0)	(1,1,0)	(2,0,0)	10.42	10.58	10.50	10.48	10.42	10.42
(1,1,0)	(2,0,0)	(2,0,0)	5.208	6.177	5.473	5.270	5.191	5.215
(2,0,0)	(2,0,0)	(2,0,0)	15.63	15.98	15.52	15.57	15.59	15.62