This E93021 (replay_3) Efficiency table was produced on 7/28/1999
(JV)

All quantities that have been looked into have found their way into this table.
Other interesting quantities are listed below the explanations. Listed to every
quantity is the efficiency factor (between 0.0 and 1.0) and the error on it (in %).

Explanations:
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run #:         Run Number
tgt A:         A (atomic units) of the target: 1, 2, 12, 27 (H, D, C, Al)
Hpol:          Polarization of the HMS (+: pi+,p / -: pi-, e)
accum charge:  the accumulated charge in 10**-6 C, beam over 5 muA threshold
avg current:   average beam over threshod (5 muA) current in 10**-6 A
total efficy:  product of all efficiencies -> total efficiencies
               the error is sqrt(Sum(errors**2)) of all separate errors
target dens:   the density correction of the cryotargets is 3%/100muA for LD2, 6%/100muA for LH2
HMS trackg:    fiducial HMS tracking efficiency
SOS trackg:    fiducial SOS tracking efficiency
HMSbeta tr:    efficiency of the tracked HMS beta (from TOF) (0.9825+-0.0025)
comp liftime:  ( 1 - (computer deadtime) )
pion absrptn:  a global factor 0.97+-0.0 for the absorption of pions inside the HMS
HMS elec lt:   HMS electronic life time
SOS elec lt:   SOS electronic life time
type 1/2/3/4:  number of recorded events of type 1 (HMS single), type 2 (SOS single),
               type 3 (HMS and SOS coincs), type 4 (pedestals, usually 1000)
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Missing items:
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On 7/29/99 I took out the following items, which were all 1.0+-0.0 at the time:
- pion decay correction
- HMS cerenkov efficiency
- SOS cerenkov efficiency
- SOS calorimeter efficiency
- Trigger efficiency

More items I would like to add over time:
- HMS/SOS S1X(Y) count rates
- ratio pi-/e- in electron arm (SOS)
- coincidence blocking

run#	tgt A	Hpol (+/-)	accum charge (muC)	(%)	avg current (muA)	(%)	total efficy	(%)	target dens	(%)	HMS trackg	(%)	SOS trackg	(%)	HMSbeta tr	(%)	comp liftime	(%)	pion absrptn	(%)	HMS elec lt	(%)	SOS elect lt	(%)	type1 evts	type2 evts	type3 evts	type evts
16837	12	+1	0.009750	0.50	11.679	0.30	0.7460	0.865	1.0000	0.000	0.9925	0.040	0.9731	0.236	0.9825	0.250	0.8105	0.104	0.9700	0.000	0.9999	0.321	1.0000	0.514	216532	85119	1	1000
16838	1	+1	0.004278	0.50	28.726	0.30	0.6414	1.174	0.9828	0.877	0.9913	0.061	0.9842	0.081	0.9825	0.250	0.7021	0.168	0.9700	0.000	0.9999	0.358	0.9999	0.362	32841	32239	19957	1000
16839	1	+1	0.078291	0.50	39.766	0.30	0.7450	1.350	0.9761	1.222	0.9923	0.020	0.9829	0.020	0.9825	0.250	0.8212	0.026	0.9700	0.000	0.9999	0.084	0.9999	0.085	0	228515	431000	1000
16840	1	+1	0.027572	0.50	38.858	0.30	0.7479	1.335	0.9767	1.194	0.9919	0.030	0.9829	0.041	0.9825	0.250	0.8243	0.043	0.9700	0.000	0.9999	0.141	0.9999	0.143	0	80745	153120	1000
16843	1	+1	0.025254	0.50	39.702	0.30	0.8489	1.378	0.9762	1.220	0.9912	0.050	0.9835	0.061	0.9825	0.250	0.9362	0.024	0.9700	0.000	0.9999	0.260	0.9999	0.149	0	0	70953	1000
16844	1	+1	0.003930	0.50	39.640	0.30	0.8505	1.554	0.9762	1.218	0.9931	0.111	0.9834	0.153	0.9825	0.250	0.9362	0.061	0.9700	0.000	0.9999	0.661	0.9999	0.378	0	0	11030	1000
16845	1	+1	0.069617	0.50	39.264	0.30	0.6986	1.333	0.9764	1.206	0.9936	0.030	0.9834	0.081	0.9825	0.250	0.7735	0.005	0.9700	0.000	0.9963	0.014	0.9970	0.017	216562	152877	373450	1000
16846	1	+1	0.076312	0.50	39.031	0.30	0.8131	1.326	0.9766	1.199	0.9938	0.030	0.9829	0.071	0.9825	0.250	0.8981	0.003	0.9700	0.000	0.9963	0.013	0.9997	0.049	276410	20959	65481	1000
16847	1	+1	0.006176	0.50	73.731	0.30	0.8841	2.810	0.9558	2.314	0.9999	0.000	0.9806	1.397	0.9825	0.250	0.9970	0.002	0.9700	0.000	0.9930	0.048	0.9999	0.524	1	502	0	1000
16848	1	+1	0.000839	0.50	75.186	0.30	0.6884	2.895	0.9549	2.362	1.0000	0.000	0.9799	0.449	0.9825	0.250	0.7774	0.515	0.9700	0.000	0.9931	0.130	1.0000	1.415	0	5392	0	1000
16849	1	+1	0.040476	0.50	73.952	0.30	0.5554	2.428	0.9556	2.322	0.9915	0.383	0.9791	0.051	0.9825	0.250	0.6326	0.011	0.9700	0.000	0.9931	0.019	0.9999	0.205	5	412502	3350	1000
16850	12	+1	0.003407	0.50	10.432	0.30	0.7200	0.972	1.0000	0.000	1.0000	0.000	0.9848	0.132	0.9825	0.250	0.9366	0.125	0.9700	0.000	0.8191	0.045	1.0000	0.773	1	43394	125	1000
16851	12	+1	0.004845	0.50	10.549	0.30	0.8114	8.377	1.0000	0.000	0.9231	8.331	0.9839	0.112	0.9825	0.250	0.9382	0.103	0.9700	0.000	0.9993	0.070	1.0000	0.648	0	61983	82	1000
16852	2	+1	0.034710	0.50	74.445	0.30	0.5820	1.276	0.9777	1.142	0.9917	0.040	0.9778	0.082	0.9825	0.250	0.6529	0.008	0.9700	0.000	0.9881	0.015	0.9985	0.049	159348	14851	117672	1000
16853	2	+1	0.125261	0.50	74.725	0.30	0.6901	1.277	0.9776	1.147	0.9916	0.030	0.9779	0.041	0.9825	0.250	0.7747	0.003	0.9700	0.000	0.9876	0.008	0.9985	0.026	85427	79581	508268	1000
16854	27	+1	0.037871	0.50	31.566	0.30	0.8946	0.592	1.0000	0.000	0.9927	0.101	0.9773	0.153	0.9825	0.250	0.9710	0.002	0.9700	0.000	0.9968	0.019	0.9997	0.064	18749	16585	28767	1000
16855	27	+1	0.001481	0.50	31.952	0.30	0.8889	1.136	1.0000	0.000	0.9905	0.555	0.9838	0.742	0.9825	0.250	0.9594	0.016	0.9700	0.000	0.9980	0.126	0.9997	0.322	2105	637	730	1000
16856	27	+1	0.027248	0.50	32.040	0.30	0.9087	0.626	1.0000	0.000	0.9935	0.151	0.9803	0.224	0.9825	0.250	0.9813	0.002	0.9700	0.000	0.9980	0.029	0.9997	0.075	10604	4794	13599	1000
16857	2	+1	0.191509	0.50	71.570	0.30	0.7741	1.233	0.9785	1.097	0.9925	0.030	0.9780	0.041	0.9825	0.250	0.8623	0.002	0.9700	0.000	0.9931	0.009	0.9986	0.021	109818	54735	495253	1000
16858	2	+1	0.131681	0.50	72.529	0.30	0.7687	1.247	0.9782	1.112	0.9922	0.040	0.9784	0.051	0.9825	0.250	0.8566	0.003	0.9700	0.000	0.9930	0.010	0.9986	0.025	75069	37369	344878	1000
16859	2	+1	0.096761	0.50	75.283	0.30	0.7648	1.285	0.9774	1.155	0.9924	0.040	0.9792	0.051	0.9825	0.250	0.8523	0.003	0.9700	0.000	0.9928	0.012	0.9985	0.029	54868	27335	258140	1000
16860	2	+1	0.044914	0.50	69.822	0.30	0.7770	1.212	0.9791	1.070	0.9922	0.060	0.9788	0.082	0.9825	0.250	0.8645	0.004	0.9700	0.000	0.9933	0.018	0.9986	0.043	25843	12892	113707	1000

16861	1	+1	0.011534	0.50	69.394	0.30	0.7727	2.263	0.9584	2.172	0.9894	0.243	0.9818	0.122	0.9825	0.250	0.8751	0.011	0.9700	0.000	0.9959	0.045	0.9994	0.126	1625	30605	9464	1000
16862	1	+1	0.006662	0.50	69.303	0.30	0.7743	2.281	0.9584	2.169	0.9877	0.364	0.9826	0.153	0.9825	0.250	0.8776	0.014	0.9700	0.000	0.9959	0.059	0.9994	0.165	235	17764	5675	1000
16863	1	+1	0.142768	0.50	68.757	0.30	0.8287	2.224	0.9587	2.151	0.9928	0.050	0.9809	0.051	0.9825	0.250	0.9357	0.002	0.9700	0.000	0.9959	0.013	0.9994	0.036	21498	101537	127968	1000
16864	1	+1	0.109480	0.50	69.111	0.30	0.8285	2.236	0.9585	2.163	0.9931	0.060	0.9808	0.061	0.9825	0.250	0.9355	0.002	0.9700	0.000	0.9959	0.015	0.9994	0.041	16504	77926	98016	1000
16865	1	+1	0.003922	0.50	69.148	0.30	0.8249	2.290	0.9585	2.164	0.9953	0.271	0.9762	0.348	0.9825	0.250	0.9339	0.013	0.9700	0.000	0.9958	0.077	0.9994	0.216	805	2783	3498	1000
16866	1	+1	0.055076	0.50	68.496	0.30	0.8277	2.218	0.9589	2.143	0.9942	0.070	0.9827	0.081	0.9825	0.250	0.9315	0.003	0.9700	0.000	0.9959	0.020	0.9994	0.057	15500	39052	48965	1000
16867	1	+1	0.003633	0.50	68.894	0.30	0.7235	2.267	0.9587	2.156	0.9922	0.171	0.9836	0.305	0.9825	0.250	0.8175	0.019	0.9700	0.000	0.9932	0.061	0.9993	0.224	12223	899	4455	1000
16868	1	+1	0.002533	0.50	68.807	0.30	0.7499	2.281	0.9587	2.153	0.9926	0.212	0.9835	0.356	0.9825	0.250	0.8470	0.074	0.9700	0.000	0.9932	0.073	0.9994	0.268	6299	811	3212	1000
16869	1	+1	0.118666	0.50	68.513	0.30	0.7415	2.216	0.9589	2.144	0.9931	0.030	0.9815	0.051	0.9825	0.250	0.8386	0.003	0.9700	0.000	0.9932	0.011	0.9994	0.039	292457	75726	146392	1000
16870	2	+1	0.018919	0.50	68.380	0.30	0.6207	1.195	0.9795	1.047	0.9927	0.060	0.9775	0.102	0.9825	0.250	0.6941	0.010	0.9700	0.000	0.9886	0.020	0.9987	0.066	66432	21764	63877	1000
16871	2	+1	0.157180	0.50	68.082	0.30	0.6809	1.184	0.9796	1.043	0.9914	0.020	0.9784	0.031	0.9825	0.250	0.7617	0.003	0.9700	0.000	0.9886	0.007	0.9986	0.023	302801	99062	579658	1000
16872	12	+1	0.049241	0.50	28.863	0.30	0.6589	1.131	1.0000	0.000	0.9841	0.112	0.9562	0.356	0.9825	0.250	0.7349	0.067	0.9700	0.000	0.9997	0.160	1.0000	0.893	806624	25472	116	1000
16873	1	+1	0.113804	0.50	97.430	0.30	0.8213	3.209	0.9415	3.104	0.9810	0.540	0.9840	0.051	0.9825	0.250	0.9486	0.017	0.9700	0.000	0.9996	0.118	1.0000	0.191	18032	6379	82863	1000
16908	1	+1	0.244508	0.50	70.130	0.30	0.8377	2.268	0.9579	2.196	0.9932	0.050	0.9827	0.041	0.9825	0.250	0.9456	0.001	0.9700	0.000	0.9944	0.009	0.9998	0.046	25029	246583	100709	1000
16909	1	+1	0.266170	0.50	70.469	0.30	0.8301	2.278	0.9577	2.207	0.9919	0.050	0.9836	0.041	0.9825	0.250	0.9376	0.001	0.9700	0.000	0.9944	0.008	0.9998	0.044	81022	267077	109963	1000
16910	1	+1	0.358506	0.50	98.966	0.30	0.7867	3.206	0.9406	3.156	0.9906	0.040	0.9821	0.031	0.9825	0.250	0.9094	0.001	0.9700	0.000	0.9922	0.007	0.9997	0.038	0	0	0	0
16923	1	+1	0.029096	0.50	93.159	0.30	0.6871	3.150	0.9441	2.960	0.9918	0.827	0.9807	0.082	0.9825	0.250	0.7910	0.008	0.9700	0.000	0.9926	0.024	1.0000	0.398	2	137931	730	1000
16924	12	+1	0.009831	0.50	20.084	0.30	0.8904	0.932	1.0000	0.000	1.0000	0.000	0.9820	0.132	0.9825	0.250	0.9523	0.008	0.9700	0.000	0.9991	0.055	1.0000	0.732	0	49383	52	1000
16925	27	+1	0.025683	0.50	29.673	0.30	0.8990	0.616	1.0000	0.000	0.9947	0.121	0.9819	0.183	0.9825	0.250	0.9683	0.003	0.9700	0.000	0.9976	0.026	0.9999	0.133	19902	30319	3062	1000
16926	2	+1	0.308562	0.50	95.078	0.30	0.7111	1.572	0.9715	1.468	0.9907	0.030	0.9800	0.031	0.9825	0.250	0.8019	0.002	0.9700	0.000	0.9873	0.006	0.9993	0.027	342756	621284	259359	1000
16927	2	+1	0.133738	0.50	94.626	0.30	0.7120	1.566	0.9716	1.461	0.9900	0.051	0.9802	0.051	0.9825	0.250	0.8031	0.003	0.9700	0.000	0.9873	0.009	0.9993	0.040	148810	270836	112330	1000
16928	2	+1	0.176679	0.50	98.117	0.30	0.7460	1.618	0.9706	1.516	0.9916	0.050	0.9799	0.041	0.9825	0.250	0.8366	0.003	0.9700	0.000	0.9929	0.010	0.9992	0.035	112361	373726	94501	1000
16929	2	+1	0.120219	0.50	100.812	0.30	0.7402	1.659	0.9698	1.559	0.9898	0.071	0.9786	0.051	0.9825	0.250	0.8335	0.004	0.9700	0.000	0.9927	0.012	0.9992	0.043	76122	253509	65624	1000
16930	2	+1	0.371224	0.50	99.236	0.30	0.7422	1.634	0.9702	1.534	0.9915	0.040	0.9794	0.031	0.9825	0.250	0.8333	0.002	0.9700	0.000	0.9927	0.007	0.9992	0.024	235276	785861	201626	1000
16931	27	+1	0.023562	0.50	30.279	0.30	0.8997	0.645	1.0000	0.000	0.9936	0.191	0.9769	0.215	0.9825	0.250	0.9740	0.004	0.9700	0.000	0.9986	0.036	0.9999	0.140	10478	27617	2024	1000
16932	1	+1	0.094588	0.50	100.105	0.30	0.7725	3.247	0.9399	3.195	0.9878	0.091	0.9814	0.082	0.9825	0.250	0.8939	0.004	0.9700	0.000	0.9954	0.018	0.9997	0.074	79146	91464	19272	1000
16933	1	+1	0.296981	0.50	100.761	0.30	0.7646	3.267	0.9395	3.217	0.9753	0.072	0.9817	0.041	0.9825	0.250	0.8962	0.002	0.9700	0.000	0.9955	0.010	0.9997	0.042	247810	285089	61219	1000
16934	1	+1	0.093551	0.50	101.406	0.30	0.7580	3.292	0.9392	3.239	0.9696	0.144	0.9819	0.081	0.9825	0.250	0.8940	0.004	0.9700	0.000	0.9954	0.018	0.9997	0.074	77716	90164	19357	1000

run#	tgt A	Hpol (+/-)	accum charge (muC)	(%)	avg current (muA)	(%)	total efficy	(%)	target dens	(%)	HMS trackg	(%)	SOS trackg	(%)	HMSbeta tr	(%)	comp liftime	(%)	pion absrptn	(%)	HMS elec lt	(%)	SOS elect lt	(%)	type1 evts	type2 evts	type3 evts	type evts
16936	2	-1	0.056048	0.50	98.163	0.30	0.7108	1.667	0.9706	1.517	0.9666	0.393	0.9797	0.082	0.9825	0.250	0.8587	0.004	0.9700	0.000	0.9457	0.007	0.9993	0.063	8357	121106	29398	1000
16937	2	-1	0.022431	0.50	74.675	0.30	0.7532	1.461	0.9776	1.146	0.9611	0.697	0.9800	0.122	0.9825	0.250	0.8952	0.006	0.9700	0.000	0.9593	0.010	0.9994	0.099	3488	50555	9696	1000
16938	2	-1	0.041779	0.50	50.120	0.30	0.8075	1.056	0.9850	0.763	0.9699	0.454	0.9804	0.092	0.9825	0.250	0.9310	0.003	0.9700	0.000	0.9722	0.007	0.9996	0.073	6982	97153	13221	1000
16949	2	-1	0.033354	0.50	20.027	0.30	0.8618	0.783	0.9940	0.302	0.9756	0.441	0.9830	0.092	0.9825	0.250	0.9599	0.007	0.9700	0.000	0.9884	0.008	0.9999	0.082	5891	151836	8917	1000
16950	2	-1	0.295410	0.50	64.266	0.30	0.7573	1.147	0.9807	0.983	0.9605	0.187	0.9812	0.031	0.9825	0.250	0.8919	0.005	0.9700	0.000	0.9645	0.003	0.9995	0.027	46602	862753	142810	1000
16951	27	-1	0.020950	0.50	29.621	0.30	0.8700	1.227	1.0000	0.000	0.9709	1.061	0.9811	0.214	0.9825	0.250	0.9696	0.011	0.9700	0.000	0.9885	0.013	0.9999	0.148	2045	53911	2380	1000
16952	27	-1	0.021453	0.50	29.422	0.30	0.8160	1.108	1.0000	0.000	0.9510	0.925	0.9831	0.193	0.9825	0.250	0.9582	0.013	0.9700	0.000	0.9559	0.006	0.9999	0.146	9334	54533	10209	1000
16953	2	-1	0.043100	0.50	24.447	0.30	0.7820	0.798	0.9927	0.369	0.9488	0.422	0.9836	0.071	0.9825	0.250	0.9371	0.009	0.9700	0.000	0.9453	0.004	0.9998	0.072	27852	175404	42705	1000
16954	2	-1	0.068131	0.50	20.064	0.30	0.7959	0.725	0.9940	0.303	0.9454	0.338	0.9839	0.061	0.9825	0.250	0.9465	0.006	0.9700	0.000	0.9545	0.003	0.9999	0.057	45263	304525	62445	1000
16955	2	-1	0.070905	0.50	20.155	0.30	0.7951	0.726	0.9940	0.304	0.9438	0.339	0.9845	0.061	0.9825	0.250	0.9468	0.006	0.9700	0.000	0.9543	0.003	0.9999	0.056	47128	316548	65347	1000
16958	2	-1	0.004801	0.50	11.163	0.30	0.7764	0.973	0.9967	0.168	0.9824	0.092	0.9785	0.470	0.9825	0.250	0.8514	0.051	0.9700	0.000	0.9987	0.047	1.0000	0.610	98946	66799	561	1000
16959	2	-1	0.010002	0.50	20.366	0.30	0.7217	0.718	0.9939	0.307	0.9887	0.061	0.9828	0.183	0.9825	0.250	0.7855	0.050	0.9700	0.000	0.9983	0.039	1.0000	0.259	136866	110428	1196	1000
16960	2	-1	0.012908	0.50	23.836	0.30	0.7717	0.756	0.9928	0.360	0.9693	0.340	0.9827	0.081	0.9825	0.250	0.8864	0.016	0.9700	0.000	0.9664	0.009	0.9995	0.080	11461	98456	18081	1000
16961	2	-1	0.121790	0.50	25.761	0.30	0.8157	0.691	0.9923	0.389	0.9717	0.103	0.9822	0.041	0.9825	0.250	0.9378	0.001	0.9700	0.000	0.9642	0.003	0.9995	0.026	114258	241675	192074	1000
16962	27	-1	0.010197	0.50	24.909	0.30	0.8818	0.644	1.0000	0.000	1.0000	0.000	0.9824	0.295	0.9825	0.250	0.9652	0.012	0.9700	0.000	0.9760	0.011	0.9998	0.122	6571	13222	6661	0
16966	27	-1	0.004540	0.50	25.339	0.30	0.8764	1.550	1.0000	0.000	0.9695	1.403	0.9912	0.293	0.9825	0.250	0.9641	0.018	0.9700	0.000	0.9929	0.032	0.9997	0.183	796	5870	920	1000
16968	27	-1	0.011601	0.50	25.628	0.30	0.8952	0.812	1.0000	0.000	0.9902	0.495	0.9763	0.297	0.9825	0.250	0.9789	0.005	0.9700	0.000	0.9929	0.020	0.9997	0.115	2057	15162	2391	1000
16969	27	-1	0.007329	0.50	25.281	0.30	0.8782	0.741	1.0000	0.000	0.9901	0.293	0.9782	0.358	0.9825	0.250	0.9585	0.015	0.9700	0.000	0.9929	0.025	0.9997	0.145	12754	9355	1458	1000
16970	2	-1	0.014138	0.50	25.374	0.30	0.8587	0.732	0.9924	0.384	0.9835	0.224	0.9850	0.142	0.9825	0.250	0.9480	0.005	0.9700	0.000	0.9891	0.015	0.9995	0.077	19743	28549	7640	1000
16971	2	-1	0.150944	0.50	74.709	0.30	0.7626	1.281	0.9776	1.146	0.9789	0.102	0.9777	0.051	0.9825	0.250	0.8835	0.003	0.9700	0.000	0.9694	0.005	0.9985	0.023	37890	245159	163528	1000
16980	1	+1	0.105483	0.50	91.283	0.30	0.8104	2.969	0.9452	2.897	0.9909	0.050	0.9815	0.092	0.9825	0.250	0.9254	0.034	0.9700	0.000	0.9997	0.113	1.0000	0.290	113373	16180	32989	1000
16981	1	+1	0.214117	0.50	90.584	0.30	0.8418	2.937	0.9456	2.874	0.9914	0.040	0.9820	0.061	0.9825	0.250	0.9598	0.017	0.9700	0.000	0.9997	0.079	1.0000	0.203	0	34345	70058	1000
16983	1	+1	0.250229	0.50	86.288	0.30	0.8380	2.867	0.9482	2.730	0.9871	0.132	0.9502	0.389	0.9825	0.250	0.9890	0.014	0.9700	0.000	0.9997	0.073	1.0000	0.527	35181	55905	6004	1000
16984	1	+1	0.064070	0.50	97.801	0.30	0.2343	3.168	0.9413	3.117	0.9840	0.051	0.9507	0.074	0.9825	0.250	0.2865	0.021	0.9700	0.000	0.9853	0.012	0.9889	0.015	114625	12012	374380	1000
16985	1	+1	0.002624	0.50	67.675	0.30	0.4556	2.215	0.9594	2.116	0.9870	0.182	0.9620	0.260	0.9825	0.250	0.5341	0.060	0.9700	0.000	0.9901	0.062	0.9925	0.079	7766	805	17795	1000
17004	1	+1	0.010208	0.50	71.566	0.30	0.1224	2.320	0.9571	2.243	0.9866	0.091	0.9604	0.125	0.9825	0.250	0.1444	0.113	0.9700	0.000	0.9892	0.029	0.9920	0.037	92417	58499	23422	1000
17005	1	+1	0.012852	0.50	69.281	0.30	0.4155	2.244	0.9584	2.169	0.9873	0.081	0.9597	0.115	0.9825	0.250	0.4891	0.023	0.9700	0.000	0.9895	0.026	0.9921	0.033	39470	4152	98559	1000
17006	1	+1	0.053294	0.50	70.741	0.30	0.4341	2.287	0.9576	2.216	0.9870	0.041	0.9595	0.052	0.9825	0.250	0.5117	0.011	0.9700	0.000	0.9895	0.013	0.9921	0.016	85535	54037	430725	1000
17007	1	+1	0.153044	0.50	71.581	0.30	0.3421	2.313	0.9571	2.244	0.9871	0.030	0.9600	0.031	0.9825	0.250	0.4032	0.009	0.9700	0.000	0.9893	0.008	0.9922	0.010	193238	122505	986297	1000
17010	12	+1	0.004870	0.50	10.615	0.30	0.2681	0.649	1.0000	0.000	0.9931	0.050	0.9781	0.082	0.9825	0.250	0.2900	0.243	0.9700	0.000	0.9990	0.054	0.9999	0.195	190305	414715	899	1000
17013	2	+1	0.061993	0.50	34.991	0.30	0.4638	0.772	0.9895	0.530	0.9900	0.020	0.9692	0.031	0.9825	0.250	0.5214	0.007	0.9700	0.000	0.9907	0.009	0.9922	0.011	181389	124497	861413	1000
17014	2	+1	0.016413	0.50	39.877	0.30	0.3723	0.829	0.9880	0.605	0.9892	0.051	0.9662	0.072	0.9825	0.250	0.4217	0.019	0.9700	0.000	0.9895	0.017	0.9913	0.021	38704	26646	206167	1000
17015	2	+1	0.055228	0.50	39.425	0.30	0.3393	0.821	0.9882	0.598	0.9898	0.030	0.9674	0.041	0.9825	0.250	0.3836	0.012	0.9700	0.000	0.9897	0.009	0.9913	0.012	118404	81328	620079	1000
17016	27	+1	0.025039	0.50	20.544	0.30	0.7928	0.565	1.0000	0.000	0.9922	0.040	0.9714	0.062	0.9825	0.250	0.8684	0.005	0.9700	0.000	0.9967	0.019	0.9971	0.021	72620	55781	164864	1000
17017	27	+1	0.050087	0.50	20.177	0.30	0.7469	0.561	1.0000	0.000	0.9915	0.020	0.9712	0.041	0.9825	0.250	0.8202	0.003	0.9700	0.000	0.9951	0.010	0.9972	0.015	210709	105439	480206	1000
17018	2	+1	0.014680	0.50	30.502	0.30	0.4743	0.729	0.9908	0.462	0.9902	0.040	0.9709	0.062	0.9825	0.250	0.5322	0.012	0.9700	0.000	0.9884	0.016	0.9933	0.022	63800	30354	262505	1000
17019	2	+1	0.014792	0.50	30.449	0.30	0.4451	0.729	0.9909	0.461	0.9904	0.040	0.9708	0.062	0.9825	0.250	0.4994	0.013	0.9700	0.000	0.9883	0.015	0.9932	0.022	60421	28618	246021	1000
17020	2	+1	0.020635	0.50	30.562	0.30	0.3336	0.730	0.9908	0.463	0.9912	0.040	0.9714	0.062	0.9825	0.250	0.3738	0.016	0.9700	0.000	0.9884	0.013	0.9932	0.019	62982	29906	256463	1000
17021	2	+1	0.022413	0.50	24.996	0.30	0.5783	0.678	0.9925	0.378	0.9915	0.030	0.9727	0.051	0.9825	0.250	0.6436	0.007	0.9700	0.000	0.9904	0.012	0.9945	0.018	11871	5655	414053	1000
17022	2	+1	0.038615	0.50	25.188	0.30	0.6134	0.678	0.9924	0.381	0.9911	0.020	0.9731	0.031	0.9825	0.250	0.6829	0.005	0.9700	0.000	0.9903	0.010	0.9944	0.014	21716	10314	761418	1000

17023	1	+1	0.003114	0.50	20.807	0.30	0.8124	0.867	0.9875	0.632	0.9924	0.111	0.9786	0.143	0.9825	0.250	0.8949	0.009	0.9700	0.000	0.9955	0.041	0.9976	0.067	1499	689	30702	1000
17024	1	+1	0.005127	0.50	30.495	0.30	0.7310	1.099	0.9817	0.932	0.9921	0.091	0.9745	0.123	0.9825	0.250	0.8163	0.011	0.9700	0.000	0.9935	0.035	0.9965	0.052	1891	861	48868	1000
17028	1	+1	0.010790	0.50	40.372	0.30	0.6581	1.367	0.9758	1.241	0.9900	0.071	0.9703	0.093	0.9825	0.250	0.7465	0.010	0.9700	0.000	0.9915	0.024	0.9954	0.036	3613	1633	113117	1000
17029	1	+1	0.070888	0.50	40.836	0.30	0.6490	1.375	0.9755	1.256	0.9902	0.030	0.9703	0.031	0.9825	0.250	0.7364	0.006	0.9700	0.000	0.9913	0.009	0.9954	0.014	23458	10632	738367	1000
17030	1	+1	0.083443	0.50	40.236	0.30	0.7341	1.358	0.9759	1.237	0.9909	0.030	0.9715	0.041	0.9825	0.250	0.8276	0.004	0.9700	0.000	0.9954	0.012	0.9954	0.013	16543	14106	597928	1000
17031	2	+1	0.022660	0.50	22.696	0.30	0.7450	0.659	0.9932	0.343	0.9913	0.040	0.9737	0.051	0.9825	0.250	0.8233	0.005	0.9700	0.000	0.9955	0.017	0.9949	0.018	7921	7414	293870	1000
17032	2	+1	0.016867	0.50	22.694	0.30	0.7406	0.661	0.9932	0.343	0.9913	0.050	0.9748	0.062	0.9825	0.250	0.8176	0.006	0.9700	0.000	0.9954	0.020	0.9949	0.021	11715	10925	217006	1000

run#	tgt A	Hpol (+/-)	accum charge (muC)	(%)	avg current (muA)	(%)	total efficy	(%)	target dens	(%)	HMS trackg	(%)	SOS trackg	(%)	HMSbeta tr	(%)	comp liftime	(%)	pion absrptn	(%)	HMS elec lt	(%)	SOS elect lt	(%)	type1 evts	type2 evts	type3 evts	type evts
17033	2	+1	0.003225	0.50	22.796	0.30	0.6452	0.682	0.9932	0.344	0.9915	0.101	0.9721	0.134	0.9825	0.250	0.7141	0.022	0.9700	0.000	0.9954	0.048	0.9949	0.051	16801	15666	31069	1000
17036	2	+1	0.012065	0.50	27.206	0.30	0.6055	0.697	0.9918	0.411	0.9919	0.050	1.0000	0.000	0.9825	0.250	0.6534	0.013	0.9700	0.000	0.9945	0.023	0.9938	0.024	66637	62148	140046	1000
17037	2	+1	0.012296	0.50	27.443	0.30	0.5925	0.702	0.9918	0.415	0.9921	0.050	0.9729	0.062	0.9825	0.250	0.6571	0.013	0.9700	0.000	0.9946	0.024	0.9939	0.024	68268	63484	142902	1000
17038	27	+1	0.020081	0.50	17.984	0.30	0.7952	0.566	1.0000	0.000	0.9926	0.050	0.9743	0.062	0.9825	0.250	0.8669	0.006	0.9700	0.000	0.9978	0.023	0.9975	0.024	89265	90978	95800	1000
17039	27	+1	0.002506	0.50	17.922	0.30	0.7863	0.608	1.0000	0.000	0.9966	0.100	0.9721	0.195	0.9825	0.250	0.8557	0.017	0.9700	0.000	0.9978	0.065	0.9974	0.067	11007	11182	11746	1000
17040	27	+1	0.017531	0.50	17.888	0.30	0.8136	0.569	1.0000	0.000	0.9924	0.071	0.9741	0.072	0.9825	0.250	0.8869	0.006	0.9700	0.000	0.9983	0.028	0.9975	0.025	60991	81272	67724	1000
17041	2	+1	0.007280	0.50	46.717	0.30	0.4403	0.918	0.9860	0.711	0.9904	0.091	0.9653	0.114	0.9825	0.250	0.4988	0.027	0.9700	0.000	0.9931	0.035	0.9896	0.032	22215	28248	73391	1000
17042	2	+1	0.069143	0.50	33.148	0.30	0.5748	0.753	0.9901	0.502	0.9914	0.030	0.9708	0.031	0.9825	0.250	0.6408	0.006	0.9700	0.000	0.9951	0.012	0.9926	0.010	273185	346657	695695	1000
17043	1	+1	0.083612	0.50	48.552	0.30	0.6164	1.602	0.9709	1.500	0.9907	0.030	0.9684	0.041	0.9825	0.250	0.7012	0.006	0.9700	0.000	0.9959	0.014	0.9945	0.013	205433	238281	446496	1000
17044	1	+1	0.136179	0.50	67.538	0.30	0.6520	2.185	0.9595	2.112	0.9907	0.030	0.9724	0.031	0.9825	0.250	0.7464	0.005	0.9700	0.000	0.9957	0.012	0.9960	0.014	268262	215849	440782	1000
17045	1	+1	0.073772	0.50	70.561	0.30	0.6219	2.281	0.9577	2.210	0.9902	0.040	0.9709	0.051	0.9825	0.250	0.7150	0.008	0.9700	0.000	0.9955	0.017	0.9958	0.019	139003	111649	234533	1000
17046	2	+1	0.016552	0.50	45.316	0.30	0.6185	0.894	0.9864	0.689	0.9909	0.071	0.9746	0.072	0.9825	0.250	0.6884	0.013	0.9700	0.000	0.9950	0.027	0.9946	0.029	53182	47218	100399	1000
17047	2	+1	0.063110	0.50	45.877	0.30	0.6122	0.896	0.9862	0.698	0.9909	0.030	0.9735	0.041	0.9825	0.250	0.6823	0.007	0.9700	0.000	0.9949	0.014	0.9946	0.015	201055	178775	382982	1000
17049	2	+1	0.016032	0.50	44.572	0.30	0.6253	0.885	0.9866	0.678	0.9916	0.061	0.9736	0.082	0.9825	0.250	0.6959	0.013	0.9700	0.000	0.9951	0.027	0.9946	0.029	52138	46703	98646	1000
17050	2	+1	0.042724	0.50	44.590	0.30	0.6281	0.881	0.9866	0.678	0.9916	0.040	0.9741	0.041	0.9825	0.250	0.6987	0.008	0.9700	0.000	0.9951	0.017	0.9947	0.018	139484	124252	260751	1000
17051	2	+1	0.074621	0.50	59.360	0.30	0.5778	1.066	0.9822	0.907	0.9901	0.030	0.9711	0.041	0.9825	0.250	0.6509	0.007	0.9700	0.000	0.9934	0.013	0.9929	0.014	113061	100221	519592	1000
17052	27	+1	0.001546	0.50	20.563	0.30	0.8696	0.774	1.0000	0.000	0.9925	0.343	0.9763	0.379	0.9825	0.250	0.9446	0.016	0.9700	0.000	0.9984	0.108	0.9985	0.118	2213	2015	3404	1000
17053	27	+1	0.038716	0.50	22.205	0.30	0.8874	0.573	1.0000	0.000	0.9905	0.091	0.9782	0.082	0.9825	0.250	0.9642	0.003	0.9700	0.000	0.9983	0.022	0.9983	0.024	11265	10180	87686	1000
17054	27	+1	0.031991	0.50	25.205	0.30	0.8626	0.568	1.0000	0.000	0.9916	0.061	0.9778	0.072	0.9825	0.250	0.9382	0.003	0.9700	0.000	0.9968	0.018	0.9982	0.026	15830	8067	115176	1000
17055	2	+1	0.017289	0.50	26.463	0.30	0.7055	0.693	0.9921	0.400	0.9919	0.050	0.9778	0.061	0.9825	0.250	0.7769	0.007	0.9700	0.000	0.9938	0.019	0.9965	0.028	60715	28583	145266	1000
17056	2	+1	0.090671	0.50	59.693	0.30	0.4486	1.070	0.9821	0.912	0.9893	0.030	0.9702	0.031	0.9825	0.250	0.5092	0.007	0.9700	0.000	0.9875	0.008	0.9929	0.012	102080	94590	853893	1000
17057	2	+1	0.062573	0.50	60.435	0.30	0.3629	1.081	0.9819	0.923	0.9895	0.030	0.9703	0.041	0.9825	0.250	0.4120	0.011	0.9700	0.000	0.9874	0.010	0.9928	0.015	56936	52838	482843	1000
17058	2	+1	0.092868	0.50	59.795	0.30	0.3927	1.072	0.9821	0.913	0.9893	0.030	0.9701	0.031	0.9825	0.250	0.4459	0.008	0.9700	0.000	0.9875	0.008	0.9929	0.012	91981	84882	768679	1000
17059	2	+1	0.088071	0.50	58.677	0.30	0.3622	1.057	0.9824	0.896	0.9894	0.030	0.9709	0.031	0.9825	0.250	0.4107	0.014	0.9700	0.000	0.9877	0.009	0.9930	0.012	80689	74786	669838	1000
17060	2	+1	0.026481	0.50	59.273	0.30	0.6156	1.069	0.9822	0.905	0.9896	0.061	0.9699	0.072	0.9825	0.250	0.6942	0.010	0.9700	0.000	0.9939	0.022	0.9929	0.023	19915	37974	164291	1000
17062	1	+1	0.019319	0.50	59.162	0.30	0.7208	1.931	0.9645	1.840	1.0000	0.000	0.9753	0.123	0.9825	0.250	0.8102	0.032	0.9700	0.000	0.9929	0.024	0.9996	0.113	197	114522	0	1000
17064	12	+1	0.005526	0.50	30.777	0.30	0.7055	0.656	1.0000	0.000	0.9905	0.141	0.9777	0.174	0.9825	0.250	0.7662	0.071	0.9700	0.000	0.9977	0.057	0.9999	0.243	31526	60021	1242	1000
17065	12	+1	0.013940	0.50	30.937	0.30	0.6934	0.599	1.0000	0.000	0.9915	0.081	0.9759	0.113	0.9825	0.250	0.7538	0.047	0.9700	0.000	0.9977	0.036	0.9998	0.154	78302	147832	3294	1000
17066	1	+1	0.030178	0.50	58.559	0.30	0.6063	1.907	0.9649	1.821	0.9909	0.050	0.9739	0.062	0.9825	0.250	0.6906	0.009	0.9700	0.000	0.9928	0.019	0.9964	0.030	106217	37422	137492	1000
17068	1	+1	0.062920	0.50	58.646	0.30	0.6449	1.908	0.9648	1.824	0.9902	0.040	0.9741	0.041	0.9825	0.250	0.7350	0.006	0.9700	0.000	0.9929	0.013	0.9965	0.021	117967	82921	304233	1000
17069	1	+1	0.105044	0.50	70.065	0.30	0.5890	2.265	0.9580	2.194	0.9897	0.030	0.9712	0.041	0.9825	0.250	0.6799	0.005	0.9700	0.000	0.9915	0.010	0.9958	0.016	181373	126908	529120	1000
17070	1	+1	0.024900	0.50	49.837	0.30	0.6126	1.642	0.9701	1.541	0.9899	0.051	0.9718	0.072	0.9825	0.250	0.6980	0.008	0.9700	0.000	0.9897	0.016	0.9970	0.033	75528	31387	150546	1000
17071	1	+1	0.001668	0.50	58.609	0.30	0.6120	1.942	0.9648	1.822	0.9902	0.202	0.9683	0.279	0.9825	0.250	0.7050	0.029	0.9700	0.000	0.9880	0.062	0.9965	0.126	1272	2104	11462	1000
17072	1	+1	0.082931	0.50	65.399	0.30	0.5645	2.118	0.9608	2.042	0.9884	0.030	0.9687	0.041	0.9825	0.250	0.6553	0.005	0.9700	0.000	0.9866	0.009	0.9961	0.018	58571	96904	573524	1000
17073	1	+1	0.082559	0.50	68.720	0.30	0.5407	2.222	0.9588	2.150	0.9881	0.030	0.9676	0.041	0.9825	0.250	0.6303	0.005	0.9700	0.000	0.9860	0.009	0.9959	0.018	56082	92326	568255	1000
17074	2	+1	0.007479	0.50	68.500	0.30	0.1695	1.209	0.9795	1.049	0.9848	0.132	0.9639	0.156	0.9825	0.250	0.1978	0.059	0.9700	0.000	0.9749	0.022	0.9918	0.043	2883	5052	51015	1000
17075	2	+1	0.008882	0.50	49.135	0.30	0.3539	0.944	0.9853	0.748	0.9893	0.081	0.9698	0.103	0.9825	0.250	0.4025	0.023	0.9700	0.000	0.9818	0.020	0.9941	0.039	7056	12366	92944	1000
17076	2	+1	0.033936	0.50	35.464	0.30	0.5635	0.778	0.9894	0.538	0.9901	0.030	0.9737	0.041	0.9825	0.250	0.6310	0.006	0.9700	0.000	0.9867	0.010	0.9957	0.020	42781	75183	432040	1000
17077	2	+1	0.051394	0.50	35.304	0.30	0.5816	0.775	0.9894	0.535	0.9908	0.030	0.9739	0.031	0.9825	0.250	0.6506	0.004	0.9700	0.000	0.9868	0.008	0.9957	0.016	66862	117174	668838	1000
17078	2	+1	0.070638	0.50	35.168	0.30	0.5819	0.774	0.9895	0.533	0.9908	0.020	0.9739	0.031	0.9825	0.250	0.6508	0.004	0.9700	0.000	0.9868	0.007	0.9958	0.014	91943	161546	922919	1000
17079	2	+1	0.079238	0.50	35.333	0.30	0.5278	0.775	0.9894	0.536	0.9907	0.020	0.9736	0.031	0.9825	0.250	0.5906	0.004	0.9700	0.000	0.9868	0.007	0.9957	0.013	93635	164317	937700	1000
17080	2	+1	0.026531	0.50	35.449	0.30	0.5481	0.779	0.9894	0.537	0.9907	0.040	0.9738	0.051	0.9825	0.250	0.6133	0.007	0.9700	0.000	0.9867	0.011	0.9957	0.023	32549	57019	326621	1000
17081	2	+1	0.047385	0.50	35.581	0.30	0.4973	0.779	0.9893	0.539	0.9914	0.030	0.9732	0.041	0.9825	0.250	0.5564	0.006	0.9700	0.000	0.9867	0.009	0.9957	0.017	52731	92733	533160	1000
17082	27	+1	0.037904	0.50	18.231	0.30	0.8415	0.563	1.0000	0.000	0.9923	0.040	0.9770	0.051	0.9825	0.250	0.9160	0.002	0.9700	0.000	0.9956	0.012	0.9986	0.024	44534	81010	191301	1000
17083	27	+1	0.009265	0.50	18.490	0.30	0.8886	0.600	1.0000	0.000	0.9920	0.121	0.9812	0.163	0.9825	0.250	0.9619	0.003	0.9700	0.000	0.9965	0.028	0.9994	0.076	8769	9278	17064	1000
17084	1	+1	0.008255	0.50	56.688	0.30	0.7591	1.861	0.9660	1.761	0.9889	0.142	0.9787	0.143	0.9825	0.250	0.8613	0.008	0.9700	0.000	0.9906	0.031	0.9986	0.089	6199	5431	24322	1000
17085	1	+1	0.253083	0.50	82.953	0.30	0.6482	2.678	0.9502	2.619	0.9874	0.030	0.9755	0.031	0.9825	0.250	0.7550	0.002	0.9700	0.000	0.9863	0.006	0.9980	0.016	164853	141469	860334	1000
17086	1	+1	0.055063	0.50	77.878	0.30	0.6860	2.515	0.9533	2.451	0.9881	0.051	0.9751	0.062	0.9825	0.250	0.7954	0.004	0.9700	0.000	0.9872	0.013	0.9981	0.034	37841	32679	188208	1000
17088	2	+1	0.093185	0.50	47.266	0.30	0.6646	0.912	0.9858	0.719	0.9897	0.030	0.9782	0.031	0.9825	0.250	0.7429	0.003	0.9700	0.000	0.9859	0.007	0.9975	0.018	109751	105377	629418	1000
17089	2	+1	0.100211	0.50	49.483	0.30	0.6526	0.939	0.9852	0.753	0.9893	0.030	0.9771	0.031	0.9825	0.250	0.7317	0.003	0.9700	0.000	0.9853	0.007	0.9974	0.018	115946	111228	692879	1000

run#	tgt A	Hpol (+/-)	accum charge (muC)	(%)	avg current (muA)	(%)	total efficy	(%)	target dens	(%)	HMS trackg	(%)	SOS trackg	(%)	HMSbeta tr	(%)	comp liftime	(%)	pion absrptn	(%)	HMS elec lt	(%)	SOS elect lt	(%)	type1 evts	type2 evts	type3 evts	type evts
17090	2	+1	0.047942	0.50	49.430	0.30	0.6574	0.940	0.9852	0.753	0.9896	0.040	0.9772	0.041	0.9825	0.250	0.7368	0.004	0.9700	0.000	0.9852	0.010	0.9974	0.026	55859	53639	335194	1000
17094	2	+1	0.147771	0.50	75.822	0.30	0.6250	1.292	0.9773	1.164	0.9887	0.030	0.9750	0.031	0.9825	0.250	0.7074	0.003	0.9700	0.000	0.9880	0.008	0.9960	0.015	58003	78113	824884	1000
17095	2	+1	0.014290	0.50	98.532	0.30	0.4687	1.631	0.9704	1.523	0.9860	0.112	0.9725	0.113	0.9825	0.250	0.5396	0.018	0.9700	0.000	0.9846	0.024	0.9948	0.047	4258	5680	74433	1000
17096	2	+1	0.167655	0.50	99.080	0.30	0.4033	1.631	0.9703	1.532	0.9869	0.030	0.9717	0.031	0.9825	0.250	0.4645	0.007	0.9700	0.000	0.9843	0.007	0.9948	0.014	43104	57699	762743	1000
17100	2	+1	0.152628	0.50	95.203	0.30	0.4528	1.573	0.9714	1.470	0.9874	0.030	0.9724	0.031	0.9825	0.250	0.5200	0.006	0.9700	0.000	0.9846	0.007	0.9949	0.014	65812	59016	757457	1000
17101	2	+1	0.038061	0.50	101.341	0.30	0.8810	1.799	0.9696	1.568	1.0000	0.000	0.9752	0.677	0.9825	0.250	0.9942	0.001	0.9700	0.000	0.9842	0.015	0.9992	0.077	314	4569	0	1000

run#	tgt A	Hpol (+/-)	accum charge (muC)	(%)	avg current (muA)	(%)	total efficy	(%)	target dens	(%)	HMS trackg	(%)	SOS trackg	(%)	HMSbeta tr	(%)	comp liftime	(%)	pion absrptn	(%)	HMS elec lt	(%)	SOS elect lt	(%)	type1 evts	type2 evts	type3 evts	type evts
17102	2	+1	0.047425	0.50	97.501	0.30	0.8385	1.621	0.9708	1.507	1.0000	0.000	0.9746	0.205	0.9825	0.250	0.9454	0.002	0.9700	0.000	0.9845	0.013	0.9992	0.069	372	54852	0	1000
17105	1	+1	0.100735	0.50	79.234	0.30	0.7344	2.558	0.9525	2.496	0.9890	0.051	0.9768	0.041	0.9825	0.250	0.8454	0.003	0.9700	0.000	0.9926	0.012	0.9980	0.025	40842	63657	246960	1000
17107	1	+1	0.121043	0.50	79.737	0.30	0.7348	2.575	0.9522	2.512	0.9891	0.040	0.9779	0.041	0.9825	0.250	0.8450	0.003	0.9700	0.000	0.9926	0.011	0.9980	0.023	49099	76409	297153	1000
17108	1	+1	0.220136	0.50	80.191	0.30	0.7290	2.589	0.9519	2.527	0.9891	0.030	0.9770	0.031	0.9825	0.250	0.8394	0.002	0.9700	0.000	0.9926	0.008	0.9980	0.017	88466	138212	541129	1000
17110	12	+1	0.007808	0.50	30.177	0.30	0.6000	0.658	1.0000	0.000	1.0000	0.000	0.9801	0.112	0.9825	0.250	0.6436	0.105	0.9700	0.000	0.9982	0.055	0.9999	0.307	0	250251	0	1000
17113	27	+1	0.023477	0.50	29.755	0.30	0.8821	0.583	1.0000	0.000	0.9923	0.111	0.9804	0.112	0.9825	0.250	0.9550	0.003	0.9700	0.000	0.9972	0.024	0.9991	0.050	11204	20479	33473	1000
17115	27	+1	0.022322	0.50	30.183	0.30	0.8484	0.602	1.0000	0.000	0.9897	0.202	0.9802	0.071	0.9825	0.250	0.9200	0.006	0.9700	0.000	0.9984	0.034	0.9991	0.052	5597	95632	17770	1000
17116	1	+1	0.098946	0.50	98.583	0.30	0.7449	3.194	0.9408	3.143	0.9903	0.061	0.9753	0.062	0.9825	0.250	0.8662	0.004	0.9700	0.000	0.9954	0.017	0.9976	0.027	40316	54598	149161	1000
17118	1	+1	0.184844	0.50	99.497	0.30	0.7428	3.224	0.9403	3.174	0.9891	0.051	0.9749	0.041	0.9825	0.250	0.8657	0.003	0.9700	0.000	0.9954	0.013	0.9975	0.020	75298	101721	279287	1000
17120	2	+1	0.156367	0.50	100.035	0.30	0.5998	1.646	0.9700	1.547	0.9878	0.040	0.9717	0.041	0.9825	0.250	0.6848	0.007	0.9700	0.000	0.9921	0.011	0.9948	0.014	88647	153709	564097	1000
17121	2	+1	0.153994	0.50	99.805	0.30	0.5343	1.643	0.9701	1.543	0.9883	0.040	0.9718	0.041	0.9825	0.250	0.6097	0.006	0.9700	0.000	0.9921	0.010	0.9948	0.014	77712	134883	494077	1000
17122	2	+1	0.015514	0.50	99.636	0.30	0.5525	1.649	0.9701	1.541	0.9891	0.121	0.9736	0.123	0.9825	0.250	0.6288	0.019	0.9700	0.000	0.9921	0.033	0.9948	0.045	8080	14110	51788	1000
17124	2	-1	0.020332	0.50	70.637	0.30	0.7237	1.227	0.9788	1.082	0.9874	0.091	0.9766	0.102	0.9825	0.250	0.8195	0.009	0.9700	0.000	0.9853	0.018	0.9964	0.040	12745	23901	52611	1000
17125	2	-1	0.055731	0.50	98.975	0.30	0.6601	1.632	0.9703	1.530	0.9843	0.061	0.9730	0.072	0.9825	0.250	0.7652	0.007	0.9700	0.000	0.9792	0.011	0.9948	0.024	8113	18419	181137	1000
17126	2	-1	0.017043	0.50	99.542	0.30	0.6706	1.647	0.9701	1.539	0.9831	0.122	0.9742	0.123	0.9825	0.250	0.7774	0.012	0.9700	0.000	0.9792	0.019	0.9948	0.043	2519	5726	56131	1000
17127	2	-1	0.058926	0.50	99.608	0.30	0.6606	1.641	0.9701	1.540	0.9845	0.061	0.9713	0.072	0.9825	0.250	0.7671	0.007	0.9700	0.000	0.9791	0.010	0.9948	0.023	17208	19540	192461	1000
17128	2	-1	0.042853	0.50	99.292	0.30	0.6557	1.638	0.9702	1.535	0.9853	0.071	0.9728	0.082	0.9825	0.250	0.7594	0.008	0.9700	0.000	0.9793	0.012	0.9949	0.028	12399	13926	137218	1000
17129	2	-1	0.075516	0.50	99.681	0.30	0.6567	1.642	0.9701	1.541	0.9849	0.051	0.9718	0.062	0.9825	0.250	0.7618	0.006	0.9700	0.000	0.9792	0.009	0.9949	0.021	21892	24737	242798	1000
17130	2	-1	0.139553	0.50	99.466	0.30	0.6081	1.637	0.9702	1.538	0.9842	0.041	0.9711	0.041	0.9825	0.250	0.7064	0.005	0.9700	0.000	0.9792	0.007	0.9948	0.015	37464	42474	418156	1000
17131	2	-1	0.108303	0.50	98.846	0.30	0.6424	1.628	0.9703	1.528	0.9852	0.041	0.9718	0.051	0.9825	0.250	0.7447	0.005	0.9700	0.000	0.9793	0.008	0.9949	0.017	30704	34722	339943	1000
17132	2	-1	0.126327	0.50	97.619	0.30	0.6540	1.610	0.9707	1.508	0.9847	0.041	0.9719	0.041	0.9825	0.250	0.7580	0.005	0.9700	0.000	0.9795	0.007	0.9949	0.016	36487	41157	400935	1000
17133	27	-1	0.001809	0.50	22.010	0.30	0.8663	0.894	1.0000	0.000	0.9894	0.617	0.9793	0.265	0.9825	0.250	0.9415	0.021	0.9700	0.000	0.9971	0.074	0.9993	0.174	349	8646	712	1000
17134	27	-1	0.034202	0.50	30.672	0.30	0.8741	0.577	1.0000	0.000	0.9915	0.111	0.9800	0.082	0.9825	0.250	0.9486	0.005	0.9700	0.000	0.9960	0.017	0.9991	0.040	13155	81736	16477	1000
17135	27	-1	0.001586	0.50	30.686	0.30	0.9125	1.544	1.0000	0.000	1.0000	0.000	0.9742	1.324	0.9825	0.250	0.9836	0.017	0.9700	0.000	0.9993	0.210	0.9999	0.523	607	998	39	1000
17137	27	-1	0.011871	0.50	30.650	0.30	0.4821	0.631	1.0000	0.000	0.9921	0.040	0.9767	0.195	0.9825	0.250	0.5225	0.061	0.9700	0.000	0.9993	0.077	0.9999	0.192	241825	39460	154	1000
17138	12	-1	0.006306	0.50	15.735	0.30	0.7446	0.712	1.0000	0.000	0.9920	0.091	0.9792	0.235	0.9825	0.250	0.8045	0.045	0.9700	0.000	0.9998	0.134	1.0000	0.334	121813	20052	41	1000
17141	12	-1	0.006316	0.50	60.760	0.30	0.2333	0.751	1.0000	0.000	0.9870	0.091	0.9582	0.198	0.9825	0.250	0.2590	0.340	0.9700	0.000	0.9998	0.242	0.9995	0.171	61384	61866	38	1000
17142	27	-1	0.028941	0.50	30.285	0.30	0.6186	0.676	1.0000	0.000	0.9806	0.377	0.9654	0.041	0.9825	0.250	0.6906	0.010	0.9700	0.000	0.9970	0.021	0.9958	0.020	27613	484781	70720	1000
17146	2	-1	0.062877	0.50	41.359	0.30	0.5749	0.843	0.9876	0.628	0.9887	0.030	0.9656	0.041	0.9825	0.250	0.6497	0.006	0.9700	0.000	0.9939	0.012	0.9909	0.011	106693	128666	566062	1000
17147	2	-1	0.061951	0.50	40.646	0.30	0.5941	0.834	0.9878	0.617	0.9893	0.020	0.9664	0.041	0.9825	0.250	0.6701	0.006	0.9700	0.000	0.9940	0.012	0.9911	0.011	108426	130825	567511	1000
17148	2	-1	0.043376	0.50	40.515	0.30	0.5624	0.834	0.9878	0.615	0.9891	0.030	0.9660	0.052	0.9825	0.250	0.6346	0.007	0.9700	0.000	0.9940	0.014	0.9911	0.013	71885	86942	378885	1000
17149	2	-1	0.098541	0.50	40.601	0.30	0.5587	0.833	0.9878	0.617	0.9887	0.020	0.9661	0.031	0.9825	0.250	0.6306	0.005	0.9700	0.000	0.9940	0.010	0.9911	0.009	162443	195914	850012	1000
17152	1	-1	0.015815	0.50	40.216	0.30	0.5460	1.373	0.9759	1.236	0.9913	0.091	0.9697	0.093	0.9825	0.250	0.6112	0.057	0.9700	0.000	0.9998	0.129	0.9995	0.093	102311	194865	253	1000
17153	2	-1	0.067809	0.50	40.151	0.30	0.5881	0.829	0.9880	0.610	0.9889	0.020	0.9667	0.041	0.9825	0.250	0.6631	0.005	0.9700	0.000	0.9941	0.011	0.9912	0.010	117503	141838	611860	1000
17154	2	-1	0.065451	0.50	40.038	0.30	0.5822	0.827	0.9880	0.608	0.9889	0.020	0.9662	0.041	0.9825	0.250	0.6567	0.006	0.9700	0.000	0.9941	0.012	0.9912	0.011	112223	135855	585161	1000
17155	2	-1	0.031602	0.50	39.800	0.30	0.5985	0.826	0.9881	0.604	0.9880	0.040	0.9662	0.052	0.9825	0.250	0.6757	0.008	0.9700	0.000	0.9941	0.017	0.9912	0.015	55846	67346	288713	1000
17165	1	+1	0.008550	0.50	97.024	0.30	0.3442	3.917	0.9418	3.091	0.9910	0.121	0.9766	0.410	0.9825	0.250	0.3962	0.442	0.9700	0.000	1.0000	1.773	1.0000	1.400	76988	22707	929	1000
17168	1	+1	0.028429	0.50	97.452	0.30	0.8279	3.397	0.9415	3.105	0.9924	0.101	0.9855	0.193	0.9825	0.250	0.9435	0.031	0.9700	0.000	1.0000	0.973	1.0000	0.768	12137	12077	7558	1000
17170	1	+1	0.273909	0.50	100.557	0.30	0.8225	3.284	0.9397	3.210	0.9932	0.030	0.9820	0.071	0.9825	0.250	0.9417	0.010	0.9700	0.000	1.0000	0.315	1.0000	0.248	0	115817	72303	1000
17171	1	+1	0.097898	0.50	101.863	0.30	0.2568	4.531	0.9389	3.255	0.9922	0.060	0.3074	3.025	0.9825	0.250	0.9411	0.017	0.9700	0.000	1.0000	0.541	1.0000	0.416	41574	41021	26061	999
17172	1	+1	0.023696	0.50	101.776	0.30	0.8236	3.583	0.9389	3.252	0.9927	0.111	0.9839	0.213	0.9825	0.250	0.9424	0.062	0.9700	0.000	1.0000	1.088	1.0000	0.842	9951	10065	6308	1000
17178	1	+1	0.010156	0.50	102.053	0.30	0.7841	3.365	0.9388	3.261	0.9923	0.151	0.9924	0.443	0.9825	0.250	0.8907	0.010	0.9700	0.000	0.9994	0.157	0.9999	0.364	2480	1758	15701	1000
17179	1	+1	0.016132	0.50	102.094	0.30	0.8412	3.405	0.9387	3.263	0.9872	0.304	0.9749	0.667	0.9825	0.250	0.9777	0.003	0.9700	0.000	0.9994	0.126	0.9999	0.290	4327	161	1844	1000
17180	1	+1	0.187874	0.50	91.642	0.30	0.8641	2.970	0.9450	2.909	0.9904	0.091	0.9829	0.163	0.9825	0.250	0.9863	0.001	0.9700	0.000	0.9994	0.037	0.9999	0.085	27127	2098	21279	1000
17182	1	+1	0.114685	0.50	91.420	0.30	0.8710	2.969	0.9451	2.902	0.9903	0.172	0.9837	0.193	0.9825	0.250	0.9933	0.001	0.9700	0.000	0.9994	0.046	0.9999	0.108	1669	1298	13102	1000
17183	1	+1	0.251064	0.50	93.141	0.30	0.8644	3.020	0.9441	2.960	0.9881	0.132	0.9801	0.163	0.9825	0.250	0.9927	0.000	0.9700	0.000	0.9994	0.031	0.9999	0.073	3602	2797	28640	1000
17184	1	+1	0.187722	0.50	92.860	0.30	0.8670	3.013	0.9443	2.950	0.9903	0.131	0.9807	0.184	0.9825	0.250	0.9928	0.001	0.9700	0.000	0.9994	0.036	0.9999	0.085	2726	2113	21367	1000
17185	1	+1	0.110105	0.50	92.878	0.30	0.8672	3.020	0.9443	2.951	0.9895	0.182	0.9816	0.234	0.9825	0.250	0.9928	0.001	0.9700	0.000	0.9994	0.047	0.9999	0.111	1597	1236	12600	1000
17186	1	+1	0.327202	0.50	92.028	0.30	0.8679	2.981	0.9448	2.922	0.9907	0.101	0.9806	0.143	0.9825	0.250	0.9929	0.000	0.9700	0.000	0.9994	0.027	0.9999	0.064	4760	3695	37377	1000
17187	2	+1	0.061021	0.50	92.330	0.30	0.8798	1.563	0.9723	1.424	0.9868	0.162	0.9840	0.203	0.9825	0.250	0.9782	0.001	0.9700	0.000	0.9999	0.162	0.9997	0.094	1530	1707	22473	1000
17188	2	+1	0.198618	0.50	90.623	0.30	0.8817	1.515	0.9728	1.397	0.9904	0.081	0.9812	0.112	0.9825	0.250	0.9790	0.001	0.9700	0.000	0.9999	0.090	0.9997	0.052	4981	5538	71661	1000
17189	2	+1	0.208325	0.50	91.747	0.30	0.8777	1.530	0.9725	1.415	0.9898	0.071	0.9811	0.102	0.9825	0.250	0.9756	0.001	0.9700	0.000	0.9999	0.088	0.9997	0.051	10433	11715	77318	1000
17190	2	+1	0.207367	0.50	92.492	0.30	0.8743	1.542	0.9723	1.427	0.9882	0.081	0.9792	0.112	0.9825	0.250	0.9755	0.001	0.9700	0.000	0.9999	0.088	0.9997	0.051	10378	11609	76584	1000
17191	2	+1	0.123021	0.50	91.511	0.30	0.8746	1.535	0.9725	1.411	0.9900	0.101	0.9777	0.153	0.9825	0.250	0.9753	0.001	0.9700	0.000	0.9999	0.114	0.9997	0.065	6219	6989	46268	1000
17192	2	+1	0.168987	0.50	89.462	0.30	0.8777	1.499	0.9732	1.379	0.9900	0.081	0.9794	0.123	0.9825	0.250	0.9764	0.001	0.9700	0.000	0.9999	0.097	0.9997	0.056	8525	9572	62184	1000
17193	2	+1	0.013275	0.50	90.492	0.30	0.7029	1.650	0.9729	1.395	1.0000	0.000	0.9772	0.174	0.9825	0.250	0.7760	0.011	0.9700	0.000	0.9999	0.348	0.9999	0.559	5	68958	0	1000
17194	12	+1	0.009657	0.50	31.133	0.30	0.8948	1.411	1.0000	0.000	1.0000	0.000	0.9744	0.287	0.9825	0.250	0.9636	0.007	0.9700	0.000	1.0000	0.673	1.0000	1.069	1	23405	0	1000
17196	27	+1	0.039800	0.50	31.061	0.30	0.9230	1.120	1.0000	0.000	0.9886	0.465	0.9809	0.795	0.9825	0.250	0.9988	0.000	0.9700	0.000	1.0000	0.252	1.0000	0.174	596	504	1793	1000
17197	1	+1	0.246568	0.50	86.990	0.30	0.8707	2.819	0.9478	2.753	0.9902	0.121	0.9801	0.153	0.9825	0.250	0.9934	0.000	0.9700	0.000	1.0000	0.102	0.9999	0.074	3604	2809	28086	1000
17198	1	+1	0.384436	0.50	90.389	0.30	0.8718	2.926	0.9458	2.867	0.9904	0.091	0.9836	0.112	0.9825	0.250	0.9930	0.000	0.9700	0.000	1.0000	0.082	0.9999	0.059	5611	4367	43776	1000
17199	2	+1	0.009599	0.50	90.384	0.30	0.8792	1.696	0.9729	1.394	0.9851	0.437	0.9839	0.457	0.9825	0.250	0.9787	0.003	0.9700	0.000	0.9999	0.408	0.9997	0.235	241	270	3533	1000
17200	2	+1	0.026515	0.50	90.315	0.30	0.8717	1.577	0.9729	1.392	0.9876	0.233	0.9777	0.317	0.9825	0.250	0.9740	0.002	0.9700	0.000	0.9999	0.246	0.9997	0.142	1997	2220	9557	1000
17201	2	+1	0.083507	0.50	90.402	0.30	0.8753	1.525	0.9729	1.394	0.9896	0.121	0.9798	0.174	0.9825	0.250	0.9740	0.001	0.9700	0.000	0.9999	0.139	0.9997	0.080	6291	7030	30429	1000
17202	2	+1	0.137442	0.50	90.192	0.30	0.8744	1.512	0.9729	1.391	0.9888	0.091	0.9795	0.133	0.9825	0.250	0.9740	0.001	0.9700	0.000	0.9999	0.108	0.9997	0.062	10348	11596	50137	1000
17203	2	+1	0.034706	0.50	90.955	0.30	0.8811	1.560	0.9727	1.403	0.9947	0.141	0.9804	0.265	0.9825	0.250	0.9750	0.002	0.9700	0.000	0.9999	0.223	0.9997	0.124	2383	2933	11527	1000
17204	2	+1	0.065233	0.50	91.122	0.30	0.8778	1.538	0.9727	1.405	0.9903	0.121	0.9827	0.173	0.9825	0.250	0.9734	0.009	0.9700	0.000	0.9999	0.157	0.9997	0.090	4894	5504	23807	1000
17205	2	+1	0.326064	0.50	90.596	0.30	0.8739	1.510	0.9728	1.397	0.9889	0.061	0.9793	0.082	0.9825	0.250	0.9737	0.001	0.9700	0.000	0.9999	0.070	0.9997	0.040	24737	27628	119500	1000
17206	2	+1	0.138748	0.50	91.209	0.30	0.8730	1.526	0.9726	1.407	0.9880	0.091	0.9798	0.122	0.9825	0.250	0.9733	0.001	0.9700	0.000	0.9999	0.107	0.9997	0.061	10520	11818	51708	1000

17207	2	+1	0.043326	0.50	90.565	0.30	0.8772	1.544	0.9728	1.396	0.9904	0.151	0.9815	0.224	0.9825	0.250	0.9736	0.002	0.9700	0.000	0.9999	0.192	0.9997	0.110	3288	3676	15891	1000
17209	1	+1	0.015406	0.50	95.319	0.30	0.8659	3.301	0.9428	3.033	0.9937	0.443	0.9752	0.800	0.9825	0.250	0.9947	0.002	0.9700	0.000	1.0000	0.680	0.9999	0.294	115	175	1243	1000
17210	1	+1	0.056878	0.50	101.325	0.30	0.8731	3.326	0.9392	3.237	0.9956	0.201	0.9858	0.294	0.9825	0.250	0.9940	0.001	0.9700	0.000	1.0000	0.354	0.9999	0.153	477	984	4744	1000
17211	1	+1	0.377968	0.50	100.952	0.30	0.8682	3.280	0.9394	3.224	0.9928	0.101	0.9827	0.132	0.9825	0.250	0.9941	0.000	0.9700	0.000	1.0000	0.137	0.9999	0.059	4228	5188	31007	1000
17212	1	+1	0.128194	0.50	98.168	0.30	0.8687	3.203	0.9411	3.129	0.9884	0.212	0.9853	0.203	0.9825	0.250	0.9947	0.001	0.9700	0.000	1.0000	0.236	0.9999	0.102	1435	1758	10298	1000
17213	1	+1	0.063599	0.50	97.807	0.30	0.8698	3.212	0.9413	3.117	0.9927	0.242	0.9823	0.316	0.9825	0.250	0.9944	0.001	0.9700	0.000	1.0000	0.334	0.9999	0.145	715	874	5072	1000
17215	1	+1	0.425873	0.50	98.731	0.30	0.8699	3.204	0.9408	3.148	0.9933	0.091	0.9826	0.122	0.9825	0.250	0.9943	0.000	0.9700	0.000	1.0000	0.129	0.9999	0.056	4782	5860	34731	1000
17216	1	+1	0.376186	0.50	98.861	0.30	0.8708	3.209	0.9407	3.153	0.9926	0.101	0.9843	0.122	0.9825	0.250	0.9943	0.000	0.9700	0.000	1.0000	0.138	0.9999	0.060	4223	5164	30803	1000
17217	1	+1	0.355927	0.50	99.099	0.30	0.8699	3.217	0.9405	3.161	0.9949	0.080	0.9812	0.132	0.9825	0.250	0.9943	0.000	0.9700	0.000	1.0000	0.141	0.9999	0.061	3994	4886	29150	1000
17218	27	+1	0.025334	0.50	29.801	0.30	0.8946	0.846	1.0000	0.000	0.9930	0.121	0.9833	0.183	0.9825	0.250	0.9614	0.005	0.9700	0.000	1.0000	0.553	1.0000	0.221	27429	36486	748	1000
17219	2	+1	0.044623	0.50	98.181	0.30	0.8808	1.677	0.9705	1.517	0.9931	0.151	0.9814	0.245	0.9825	0.250	0.9774	0.002	0.9700	0.000	1.0000	0.320	0.9997	0.109	4895	4514	9574	1000
17220	2	+1	0.230837	0.50	97.930	0.30	0.8845	1.627	0.9706	1.513	0.9927	0.081	0.9808	0.122	0.9825	0.250	0.9824	0.001	0.9700	0.000	1.0000	0.140	0.9997	0.048	12706	11963	51215	1000
17221	2	+1	0.329325	0.50	87.642	0.30	0.8892	1.472	0.9737	1.350	0.9919	0.071	0.9810	0.112	0.9825	0.250	0.9850	0.001	0.9700	0.000	1.0000	0.117	0.9997	0.040	18236	17028	67022	1000
17222	2	+1	0.051148	0.50	88.253	0.30	0.8853	1.542	0.9735	1.360	0.9929	0.171	0.9761	0.297	0.9825	0.250	0.9848	0.002	0.9700	0.000	1.0000	0.298	0.9997	0.102	2832	2632	10544	1000
17223	2	+1	0.383662	0.50	84.628	0.30	0.8919	1.427	0.9746	1.302	0.9916	0.071	0.9828	0.092	0.9825	0.250	0.9856	0.001	0.9700	0.000	1.0000	0.109	0.9997	0.037	21287	19887	76665	1000
17224	2	+1	0.532268	0.50	86.774	0.30	0.8916	1.455	0.9740	1.336	0.9916	0.061	0.9834	0.071	0.9825	0.250	0.9853	0.001	0.9700	0.000	1.0000	0.092	0.9997	0.031	29504	27546	107510	1000
17225	2	−1	0.003689	0.50	25.710	0.30	0.8340	2.615	0.9923	0.389	0.9570	2.247	0.9741	1.088	0.9825	0.250	0.9912	0.002	0.9700	0.000	0.9546	0.014	0.9999	0.378	1127	190	919	1000
17226	2	−1	0.044587	0.50	25.816	0.30	0.8444	0.960	0.9923	0.390	0.9593	0.636	0.9857	0.203	0.9825	0.250	0.9894	0.001	0.9700	0.000	0.9545	0.004	0.9999	0.108	13647	7765	11317	1000
17227	2	−1	0.044686	0.50	19.903	0.30	0.8340	0.775	0.9940	0.300	0.9521	0.399	0.9833	0.163	0.9825	0.250	0.9754	0.001	0.9700	0.000	0.9642	0.004	0.9999	0.109	68781	22521	8680	1000
17228	2	−1	0.059530	0.50	16.185	0.30	0.8669	0.759	0.9951	0.244	0.9666	0.403	0.9838	0.183	0.9825	0.250	0.9904	0.001	0.9700	0.000	0.9705	0.003	1.0000	0.094	37666	15423	9937	1000
17229	2	−1	0.053641	0.50	16.091	0.30	0.8668	0.768	0.9952	0.243	0.9667	0.414	0.9833	0.193	0.9825	0.250	0.9905	0.001	0.9700	0.000	0.9707	0.004	1.0000	0.099	33951	13991	9030	1000
17230	2	−1	0.057267	0.50	16.136	0.30	0.8656	0.771	0.9952	0.243	0.9650	0.425	0.9839	0.183	0.9825	0.250	0.9905	0.001	0.9700	0.000	0.9706	0.004	1.0000	0.096	36242	14872	9648	1000
17231	2	−1	0.055025	0.50	16.156	0.30	0.8654	0.773	0.9952	0.244	0.9682	0.413	0.9803	0.214	0.9825	0.250	0.9906	0.001	0.9700	0.000	0.9706	0.004	1.0000	0.098	34799	14297	9226	1000
17232	2	−1	0.001703	0.50	16.126	0.30	0.8808	1.957	0.9952	0.243	0.9881	0.425	0.9713	0.937	0.9825	0.250	0.9694	0.016	0.9700	0.000	0.9982	0.085	1.0000	1.547	3331	2810	1	1000
17233	2	−1	0.019146	0.50	16.086	0.30	0.6640	0.777	0.9952	0.242	0.9917	0.030	0.9761	0.143	0.9825	0.250	0.7246	0.020	0.9700	0.000	0.9982	0.025	1.0000	0.459	490453	95448	37	1000

run#	tgt A	Hpol (+/−)	accum charge (muC)	(%)	avg current (muA)	(%)	total efficy	(%)	target dens	(%)	HMS trackg	(%)	SOS trackg	(%)	HMSbeta tr	(%)	comp liftime	(%)	pion absrptn	(%)	HMS elec lt	(%)	SOS elect lt	(%)	type1 evts	type2 evts	type3 evts	type evts
17234	12	−1	0.003943	0.50	15.905	0.30	0.6318	1.929	1.0000	0.000	0.9882	0.162	0.9709	0.525	0.9825	0.250	0.6916	0.764	0.9700	0.000	0.9991	0.089	1.0000	1.586	126244	7631	2	1000
17235	27	−1	0.029434	0.50	15.917	0.30	0.7919	0.664	1.0000	0.000	0.9610	0.271	0.9755	0.123	0.9825	0.250	0.9043	0.003	0.9700	0.000	0.9802	0.006	1.0000	0.199	186695	126042	1296	1000
17236	27	−1	0.003749	0.50	15.845	0.30	0.8776	1.184	1.0000	0.000	0.9838	0.823	0.9824	0.285	0.9825	0.250	0.9572	0.013	0.9700	0.000	0.9954	0.034	1.0000	0.574	4417	16138	33	1000
17237	27	−1	0.045441	0.50	30.974	0.30	0.8986	1.013	1.0000	0.000	0.9769	0.788	0.9825	0.254	0.9825	0.250	0.9910	0.002	0.9700	0.000	0.9913	0.010	1.0000	0.165	5424	20243	730	1000
17238	2	−1	0.064783	0.50	51.640	0.30	0.8813	1.171	0.9845	0.787	0.9771	0.583	0.9861	0.304	0.9825	0.250	0.9957	0.001	0.9700	0.000	0.9792	0.007	0.9998	0.091	1652	668	7024	1000
17239	2	−1	0.073338	0.50	51.318	0.30	0.8796	1.070	0.9846	0.782	0.9843	0.356	0.9807	0.296	0.9825	0.250	0.9917	0.001	0.9700	0.000	0.9793	0.007	0.9998	0.085	9303	3837	7943	1000
17240	2	−1	0.184898	0.50	50.499	0.30	0.8564	0.979	0.9849	0.769	0.9749	0.205	0.9825	0.092	0.9825	0.250	0.9726	0.001	0.9700	0.000	0.9797	0.004	0.9998	0.054	76714	93414	18870	1000
17241	2	−1	0.176888	0.50	50.604	0.30	0.8590	0.978	0.9848	0.771	0.9768	0.195	0.9837	0.091	0.9825	0.250	0.9725	0.001	0.9700	0.000	0.9796	0.004	0.9998	0.055	73342	89437	18187	1000
17242	2	−1	0.207540	0.50	50.566	0.30	0.8573	0.976	0.9848	0.770	0.9748	0.195	0.9837	0.081	0.9825	0.250	0.9725	0.001	0.9700	0.000	0.9796	0.004	0.9998	0.051	86093	105024	21323	1000
17243	12	+1	0.019298	0.50	20.945	0.30	0.3876	1.976	1.0000	0.000	0.9944	0.010	0.9796	0.204	0.9825	0.250	0.4175	0.926	0.9700	0.000	1.0000	1.407	1.0000	0.844	834121	16093	181	1000
17244	1	+1	0.014999	0.50	20.922	0.30	0.8331	1.712	0.9874	0.636	0.9944	0.020	0.9841	0.051	0.9825	0.250	0.9047	0.034	0.9700	0.000	1.0000	1.470	1.0000	0.224	0	3891	110267	1000
17248	1	+1	0.057827	0.50	98.160	0.30	0.8460	3.310	0.9411	3.129	0.9942	0.050	0.9809	0.112	0.9825	0.250	0.9672	0.010	0.9700	0.000	1.0000	0.794	1.0000	0.453	7330	203	26634	1000
17251	12	+1	0.001597	0.50	20.701	0.30	0.8439	1.526	1.0000	0.000	1.0000	0.000	0.9832	0.203	0.9825	0.250	0.9006	0.027	0.9700	0.000	1.0000	0.567	1.0000	1.286	775	15101	28	1000
17252	12	+1	0.006717	0.50	20.628	0.30	0.8395	0.932	1.0000	0.000	0.9960	0.281	0.9828	0.102	0.9825	0.250	0.8999	0.013	0.9700	0.000	0.9999	0.275	1.0000	0.625	3255	63927	73	1000
17253	1	+1	0.028474	0.50	71.253	0.30	0.5942	2.326	0.9572	2.233	0.9927	0.151	0.9812	0.061	0.9825	0.250	0.6691	0.012	0.9700	0.000	0.9996	0.094	1.0000	0.271	18265	251768	1236	1000
17254	1	+1	0.061346	0.50	99.287	0.30	0.7734	3.220	0.9404	3.167	0.9904	0.071	0.9767	0.102	0.9825	0.250	0.8933	0.003	0.9700	0.000	0.9994	0.065	0.9992	0.057	52377	14958	53114	1000
17255	1	+1	0.370610	0.50	99.113	0.30	0.7820	3.211	0.9405	3.161	0.9911	0.030	0.9795	0.041	0.9825	0.250	0.9000	0.001	0.9700	0.000	0.9994	0.027	0.9992	0.023	212255	151335	323726	1000
17256	1	+1	0.116699	0.50	99.274	0.30	0.7823	3.218	0.9404	3.167	0.9905	0.061	0.9796	0.061	0.9825	0.250	0.9008	0.002	0.9700	0.000	0.9994	0.047	0.9992	0.042	66880	47921	101669	1000
17257	2	+1	0.010162	0.50	80.246	0.30	0.7685	1.380	0.9759	1.233	0.9932	0.121	0.9771	0.184	0.9825	0.250	0.8534	0.008	0.9700	0.000	0.9991	0.119	0.9987	0.096	7043	2112	21800	1000
17258	2	+1	0.246148	0.50	80.144	0.30	0.7478	1.354	0.9760	1.232	0.9911	0.030	0.9765	0.041	0.9825	0.250	0.8326	0.002	0.9700	0.000	0.9991	0.025	0.9986	0.020	221850	98903	505700	1000
17259	27	+1	0.016879	0.50	26.469	0.30	0.9153	0.654	1.0000	0.000	0.9946	0.151	0.9836	0.254	0.9825	0.250	0.9822	0.002	0.9700	0.000	0.9999	0.132	0.9998	0.102	10358	4383	5668	1000
17260	27	+1	0.016389	0.50	25.386	0.30	0.9071	0.722	1.0000	0.000	0.9908	0.232	0.9750	0.349	0.9825	0.250	0.9856	0.002	0.9700	0.000	0.9999	0.149	0.9998	0.103	8448	4305	4624	1000
17261	2	+1	0.003720	0.50	69.805	0.30	0.7977	1.315	0.9791	1.069	0.9920	0.232	0.9726	0.380	0.9825	0.250	0.8878	0.012	0.9700	0.000	0.9993	0.220	0.9988	0.159	3022	1617	6330	1000
17263	2	+1	0.217134	0.50	88.249	0.30	0.7408	1.471	0.9735	1.360	0.9911	0.030	0.9761	0.041	0.9825	0.250	0.8272	0.002	0.9700	0.000	0.9992	0.030	0.9985	0.021	163208	173732	413046	1000
17264	2	+1	0.033664	0.50	92.056	0.30	0.7366	1.535	0.9724	1.420	0.9889	0.091	0.9754	0.103	0.9825	0.250	0.8259	0.016	0.9700	0.000	0.9993	0.078	0.9984	0.054	25126	26512	65245	1000
17268	2	+1	0.126665	0.50	91.508	0.30	0.7396	1.520	0.9725	1.411	0.9910	0.040	0.9766	0.051	0.9825	0.250	0.8264	0.003	0.9700	0.000	0.9993	0.040	0.9985	0.028	94470	100116	243100	1000
17278	2	+1	0.386571	0.50	91.816	0.30	0.7361	1.523	0.9725	1.416	0.9906	0.020	0.9760	0.031	0.9825	0.250	0.8234	0.002	0.9700	0.000	0.9993	0.023	0.9985	0.016	287073	305428	750099	1000
17279	2	+1	0.106594	0.50	91.197	0.30	0.6772	1.516	0.9726	1.406	0.9908	0.050	0.9758	0.061	0.9825	0.250	0.7572	0.004	0.9700	0.000	0.9992	0.043	0.9987	0.033	72923	63376	159192	1000
17280	2	+1	0.023774	0.50	88.940	0.30	0.7402	1.492	0.9733	1.371	0.9910	0.101	0.9770	0.113	0.9825	0.250	0.8261	0.006	0.9700	0.000	0.9992	0.091	0.9984	0.062	17711	19722	47125	1000
17281	1	+1	0.057730	0.50	90.246	0.30	0.8047	2.921	0.9459	2.862	0.9921	0.081	0.9804	0.092	0.9825	0.250	0.9189	0.003	0.9700	0.000	0.9996	0.078	0.9993	0.059	28884	24362	42752	1000
17282	1	+1	0.054060	0.50	90.353	0.30	0.7982	2.925	0.9458	2.866	0.9926	0.081	0.9808	0.102	0.9825	0.250	0.9106	0.004	0.9700	0.000	0.9996	0.079	0.9993	0.061	26722	22782	40275	1000
17283	1	+1	0.479670	0.50	89.817	0.30	0.8050	2.903	0.9461	2.848	0.9925	0.030	0.9793	0.031	0.9825	0.250	0.9196	0.001	0.9700	0.000	0.9996	0.027	0.9993	0.020	239759	203208	355358	1000
17284	1	+1	0.075025	0.50	90.361	0.30	0.8041	2.924	0.9458	2.866	0.9912	0.071	0.9795	0.082	0.9825	0.250	0.9199	0.003	0.9700	0.000	0.9996	0.068	0.9993	0.052	37501	31675	55319	1000
17285	1	+1	0.176421	0.50	79.636	0.30	0.8295	2.572	0.9522	2.509	0.9929	0.050	0.9810	0.061	0.9825	0.250	0.9393	0.002	0.9700	0.000	0.9997	0.050	0.9994	0.034	71282	76729	101985	1000
17286	1	+1	0.117606	0.50	95.637	0.30	0.8072	3.097	0.9426	3.044	0.9913	0.071	0.9807	0.071	0.9825	0.250	0.9253	0.002	0.9700	0.000	0.9997	0.063	0.9992	0.041	46698	50055	75321	1000
17287	1	+1	0.276498	0.50	88.317	0.30	0.8156	2.854	0.9470	2.798	0.9923	0.040	0.9806	0.041	0.9825	0.250	0.9297	0.002	0.9700	0.000	0.9997	0.041	0.9993	0.027	110312	118609	168569	1000
17288	2	+1	0.134520	0.50	81.918	0.30	0.7825	1.381	0.9754	1.260	0.9919	0.050	0.9773	0.051	0.9825	0.250	0.8700	0.002	0.9700	0.000	0.9995	0.047	0.9986	0.026	81847	115187	201181	1000
17289	2	+1	0.111413	0.50	82.641	0.30	0.7769	1.392	0.9752	1.271	0.9909	0.050	0.9770	0.061	0.9825	0.250	0.8651	0.003	0.9700	0.000	0.9995	0.051	0.9986	0.029	67179	95088	167897	1000
17290	2	+1	0.192052	0.50	80.131	0.30	0.7841	1.354	0.9760	1.232	0.9917	0.040	0.9768	0.041	0.9825	0.250	0.8719	0.002	0.9700	0.000	0.9995	0.039	0.9986	0.022	116785	164798	284789	1000
17291	27	+1	0.019687	0.50	30.992	0.30	0.9105	0.670	1.0000	0.000	0.9910	0.232	0.9837	0.213	0.9825	0.250	0.9805	0.003	0.9700	0.000	0.9999	0.169	0.9997	0.094	7823	10371	5407	1000
17292	2	−1	0.005972	0.50	21.474	0.30	0.7961	0.947	0.9936	0.324	0.9548	0.649	0.9830	0.203	0.9825	0.250	0.9393	0.004	0.9700	0.000	0.9540	0.010	0.9996	0.126	14259	5498	8220	1000
17293	2	−1	0.064325	0.50	21.374	0.30	0.8117	0.682	0.9936	0.323	0.9595	0.208	0.9832	0.061	0.9825	0.250	0.9526	0.001	0.9700	0.000	0.9542	0.003	0.9996	0.038	104229	60310	91943	1000
17294	2	−1	0.003800	0.50	20.692	0.30	0.8081	1.119	0.9938	0.312	0.9553	0.858	0.9795	0.286	0.9825	0.250	0.9544	0.004	0.9700	0.000	0.9557	0.013	0.9996	0.157	6178	3593	5344	1000

17295	2	-1	0.007591	0.50	20.877	0.30	0.8167	0.876	0.9937	0.315	0.9635	0.560	0.9848	0.173	0.9825	0.250	0.9521	0.003	0.9700	0.000	0.9549	0.009	0.9996	0.111	12394	7164	10840	1000
17296	2	-1	0.009157	0.50	20.992	0.30	0.8231	0.834	0.9937	0.317	0.9674	0.496	0.9831	0.163	0.9825	0.250	0.9575	0.003	0.9700	0.000	0.9547	0.008	0.9997	0.101	11267	8716	13390	1000
17297	2	-1	0.005868	0.50	20.981	0.30	0.8394	0.902	0.9937	0.317	0.9762	0.574	0.9825	0.234	0.9825	0.250	0.9683	0.003	0.9700	0.000	0.9548	0.010	0.9997	0.125	4379	2833	8541	1000
17298	2	-1	0.027899	0.50	20.974	0.30	0.8267	0.743	0.9937	0.317	0.9587	0.355	0.9834	0.102	0.9825	0.250	0.9705	0.001	0.9700	0.000	0.9544	0.005	0.9996	0.058	17493	11451	40600	1000
17299	2	-1	0.008696	0.50	15.820	0.30	0.8617	0.813	0.9953	0.238	0.9752	0.502	0.9866	0.172	0.9825	0.250	0.9788	0.002	0.9700	0.000	0.9649	0.008	0.9997	0.103	5663	5093	10212	1000
17300	2	-1	0.072129	0.50	20.906	0.30	0.8279	0.679	0.9937	0.316	0.9619	0.208	0.9835	0.061	0.9825	0.250	0.9685	0.001	0.9700	0.000	0.9545	0.003	0.9996	0.036	45311	41836	106307	1000
17302	2	-1	0.039979	0.50	21.025	0.30	0.8282	0.707	0.9937	0.317	0.9626	0.280	0.9842	0.081	0.9825	0.250	0.9679	0.001	0.9700	0.000	0.9541	0.004	0.9996	0.048	25189	23214	59401	1000
run#	tgt A	Hpol (+/-)	accum charge (muC)	(%)	avg current (muA)	(%)	total efficy	(%)	target dens	(%)	HMS trackg	(%)	SOS trackg	(%)	HMSbeta tr	(%)	comp liftime	(%)	pion absrptn	(%)	HMS elec lt	(%)	SOS elect lt	(%)	type1 evts	type2 evts	type3 evts	type evts
17303	2	-1	0.097307	0.50	20.940	0.30	0.8243	0.672	0.9937	0.316	0.9585	0.188	0.9828	0.051	0.9825	0.250	0.9685	0.001	0.9700	0.000	0.9543	0.003	0.9996	0.031	61182	56253	142799	1000
17304	27	-1	0.015058	0.50	20.776	0.30	0.8572	1.047	1.0000	0.000	0.9595	0.844	0.9821	0.244	0.9825	0.250	0.9853	0.001	0.9700	0.000	0.9689	0.008	0.9998	0.106	6590	4053	8171	1000
17305	2	-1	0.001770	0.50	20.553	0.30	0.9337	1.321	0.9938	0.310	0.9908	0.929	1.0000	0.000	0.9825	0.250	0.9970	0.003	0.9700	0.000	0.9980	0.087	0.9999	0.682	302	98	90	1000
17306	2	-1	0.001798	0.50	20.805	0.30	0.6558	0.974	0.9938	0.314	0.9927	0.091	0.9799	0.235	0.9825	0.250	0.7133	0.039	0.9700	0.000	0.9980	0.087	0.9999	0.682	26365	21280	56	1000
17307	2	-1	0.006569	0.50	20.806	0.30	0.7257	0.753	0.9938	0.314	0.9912	0.061	0.9806	0.143	0.9825	0.250	0.7899	0.016	0.9700	0.000	0.9980	0.046	1.0000	0.360	71110	56389	221	1000
17308	2	-1	0.015978	0.50	20.871	0.30	0.7657	0.692	0.9937	0.315	0.9933	0.040	0.9819	0.081	0.9825	0.250	0.8307	0.068	0.9700	0.000	0.9980	0.029	1.0000	0.230	106321	145784	320	1000
17309	12	-1	0.002594	0.50	20.627	0.30	0.7902	1.179	1.0000	0.000	0.9937	0.121	0.9840	0.163	0.9825	0.250	0.8487	0.269	0.9700	0.000	0.9992	0.112	1.0000	0.976	12259	24837	9	1000
17310	12	-1	0.016093	0.50	20.843	0.30	0.8273	0.706	1.0000	0.000	0.9931	0.040	0.9792	0.163	0.9825	0.250	0.8934	0.010	0.9700	0.000	0.9992	0.045	1.0000	0.395	119064	31795	75	1000
17311	2	-1	0.001338	0.50	20.989	0.30	0.4533	0.819	0.9937	0.317	0.9808	0.408	0.9812	0.122	0.9825	0.250	0.5050	0.073	0.9700	0.000	0.9851	0.037	0.9996	0.264	18146	40260	382	1000
17312	2	-1	0.013524	0.50	20.821	0.30	0.8932	0.749	0.9938	0.314	0.9877	0.324	0.9840	0.193	0.9825	0.250	0.9854	0.002	0.9700	0.000	0.9851	0.012	0.9996	0.083	2983	6610	7778	1000
17313	2	-1	0.233903	0.50	45.175	0.30	0.8323	0.893	0.9864	0.687	0.9764	0.102	0.9796	0.041	0.9825	0.250	0.9562	0.001	0.9700	0.000	0.9688	0.003	0.9992	0.020	48479	111643	247367	1000
17315	27	-1	0.012893	0.50	20.506	0.30	0.9041	1.084	1.0000	0.000	0.9795	0.858	0.9850	0.335	0.9825	0.250	0.9936	0.002	0.9700	0.000	0.9898	0.014	0.9998	0.114	1702	3509	2296	1000
17317	1	+1	0.135342	0.50	100.730	0.30	0.8123	3.267	0.9396	3.216	0.9889	0.071	0.9818	0.081	0.9825	0.250	0.9354	0.002	0.9700	0.000	0.9993	0.043	0.9996	0.055	67182	42863	52919	1000
17318	1	+1	0.004792	0.50	100.932	0.30	0.8165	3.328	0.9394	3.223	0.9945	0.282	0.9819	0.397	0.9825	0.250	0.9349	0.010	0.9700	0.000	0.9993	0.226	0.9996	0.292	2366	1516	1898	1000
17340	1	+1	0.042835	0.50	50.179	0.30	0.8882	1.950	0.9699	1.552	0.9892	0.172	0.9804	0.275	0.9825	0.250	0.9908	0.014	0.9700	0.000	1.0000	0.723	1.0000	0.674	9559	1134	3889	1000
17341	1	+1	0.033532	0.50	57.221	0.30	0.8891	2.194	0.9657	1.778	0.9940	0.141	0.9824	0.305	0.9825	0.250	0.9894	0.017	0.9700	0.000	1.0000	0.808	1.0000	0.758	7531	901	3072	1000
17342	1	+1	0.134318	0.50	50.639	0.30	0.8442	1.763	0.9696	1.567	0.9910	0.050	0.9815	0.153	0.9825	0.250	0.9392	0.021	0.9700	0.000	1.0000	0.409	1.0000	0.382	0	3339	11658	1000
17344	1	+1	0.008249	0.50	50.625	0.30	0.8205	2.846	0.9696	1.566	0.9886	0.182	0.9909	0.464	0.9825	0.250	0.9064	0.313	0.9700	0.000	1.0000	1.611	1.0000	1.546	27925	190	678	1000
17345	1	+1	0.003835	0.50	50.695	0.30	0.8815	3.785	0.9696	1.569	0.9969	0.311	0.9780	0.675	0.9825	0.250	0.9785	0.204	0.9700	0.000	1.0000	2.409	1.0000	2.271	846	1649	314	1000
17346	1	+1	0.006299	0.50	51.757	0.30	0.3440	1.738	0.9689	1.602	0.9938	0.121	0.9802	0.061	0.9825	0.250	0.3827	0.116	0.9700	0.000	0.9998	0.283	0.9995	0.168	23808	125885	1294	1000
17347	1	+1	0.007019	0.50	52.210	0.30	0.3762	1.752	0.9687	1.617	0.9956	0.181	0.9803	0.061	0.9825	0.250	0.4178	0.098	0.9700	0.000	0.9998	0.267	0.9995	0.159	5774	153319	1521	1000
17348	1	+1	0.004270	0.50	52.260	0.30	0.3124	1.771	0.9686	1.619	0.9941	0.101	0.9793	0.082	0.9825	0.250	0.3479	0.160	0.9700	0.000	0.9998	0.346	0.9995	0.203	29333	77652	773	1000
17349	1	+1	0.041918	0.50	52.323	0.30	0.3253	1.720	0.9686	1.621	0.9939	0.030	0.9791	0.031	0.9825	0.250	0.3624	0.048	0.9700	0.000	0.9998	0.109	0.9995	0.065	499619	476349	8108	1000
17350	1	+1	0.053374	0.50	51.765	0.30	0.8169	1.703	0.9689	1.603	0.9944	0.050	0.9797	0.071	0.9825	0.250	0.9086	0.006	0.9700	0.000	0.9998	0.098	0.9995	0.058	79853	75215	25315	1000
17351	2	+1	0.007773	0.50	38.845	0.30	0.7979	0.862	0.9883	0.590	0.9934	0.111	0.9787	0.153	0.9825	0.250	0.8722	0.015	0.9700	0.000	0.9998	0.188	0.9992	0.105	20567	22050	6371	1000
17352	2	+1	0.079885	0.50	52.168	0.30	0.8361	0.977	0.9843	0.795	0.9937	0.050	0.9788	0.061	0.9825	0.250	0.9175	0.004	0.9700	0.000	0.9997	0.060	0.9990	0.033	82839	78805	75844	1000
17359	1	+1	0.247123	0.50	51.401	0.30	0.8607	1.688	0.9692	1.591	0.9940	0.030	0.9810	0.041	0.9825	0.250	0.9563	0.002	0.9700	0.000	0.9998	0.046	0.9995	0.027	145632	123232	123957	1000
17360	1	+1	0.002304	0.50	89.374	0.30	0.8114	3.004	0.9464	2.833	0.9898	0.465	0.9830	0.407	0.9825	0.250	0.9256	0.028	0.9700	0.000	0.9998	0.474	0.9992	0.277	1203	1118	1279	1000
17361	1	+1	0.046850	0.50	64.735	0.30	0.6214	2.101	0.9612	2.021	0.9942	0.040	0.9785	0.051	0.9825	0.250	0.6980	0.016	0.9700	0.000	0.9998	0.104	0.9993	0.062	184293	170363	18353	1000
17362	1	+1	0.047234	0.50	59.822	0.30	0.6299	1.949	0.9641	1.861	0.9935	0.040	0.9787	0.051	0.9825	0.250	0.7057	0.016	0.9700	0.000	0.9998	0.105	0.9993	0.061	188005	173395	18886	1000
17363	1	+1	0.145389	0.50	50.629	0.30	0.8630	1.666	0.9696	1.566	0.9949	0.040	0.9800	0.061	0.9825	0.250	0.9584	0.003	0.9700	0.000	0.9998	0.060	0.9995	0.035	78374	72483	72515	1000
17364	1	+1	0.031822	0.50	25.921	0.30	0.8977	0.990	0.9844	0.790	0.9961	0.080	0.9817	0.122	0.9825	0.250	0.9788	0.004	0.9700	0.000	0.9999	0.126	0.9998	0.074	17657	16343	14819	1000
17366	1	+1	0.289833	0.50	77.352	0.30	0.8266	2.498	0.9536	2.433	0.9946	0.030	0.9782	0.041	0.9825	0.250	0.9358	0.002	0.9700	0.000	0.9997	0.042	0.9993	0.025	151801	141007	156381	1000
17367	1	+1	0.210392	0.50	76.822	0.30	0.8278	2.481	0.9539	2.416	0.9949	0.030	0.9785	0.051	0.9825	0.250	0.9362	0.003	0.9700	0.000	0.9997	0.050	0.9993	0.029	110168	102392	113445	1000
17368	2	+1	0.011111	0.50	77.244	0.30	0.7928	1.343	0.9768	1.186	0.9949	0.121	0.9743	0.185	0.9825	0.250	0.8803	0.012	0.9700	0.000	0.9996	0.163	0.9985	0.088	10043	10466	12024	1000
17369	2	+1	0.223348	0.50	77.106	0.30	0.7897	1.311	0.9769	1.184	0.9941	0.030	0.9762	0.041	0.9825	0.250	0.8758	0.003	0.9700	0.000	0.9995	0.036	0.9985	0.020	219816	209587	240279	1000
17370	2	+1	0.153980	0.50	78.430	0.30	0.7887	1.330	0.9765	1.205	0.9942	0.030	0.9762	0.051	0.9825	0.250	0.8749	0.003	0.9700	0.000	0.9995	0.043	0.9985	0.024	151240	144446	166564	1000
17371	2	+1	0.221196	0.50	77.960	0.30	0.7895	1.323	0.9766	1.197	0.9945	0.030	0.9764	0.041	0.9825	0.250	0.8753	0.003	0.9700	0.000	0.9995	0.036	0.9985	0.020	217461	208087	240179	1000
17372	2	+1	0.271807	0.50	41.739	0.30	0.8554	0.847	0.9875	0.634	0.9947	0.020	0.9793	0.031	0.9825	0.250	0.9341	0.002	0.9700	0.000	0.9998	0.032	0.9992	0.018	288092	274768	243513	1000
17373	2	+1	0.033208	0.50	41.598	0.30	0.8568	0.857	0.9875	0.632	0.9960	0.060	0.9800	0.092	0.9825	0.250	0.9337	0.005	0.9700	0.000	0.9997	0.090	0.9992	0.050	35257	33861	30089	1000
17374	27	+1	0.020561	0.50	32.018	0.30	0.9031	0.625	1.0000	0.000	0.9954	0.121	0.9805	0.184	0.9825	0.250	0.9714	0.005	0.9700	0.000	0.9999	0.152	0.9996	0.084	15288	12591	6746	1000
17375	2	+1	0.089128	0.50	41.379	0.30	0.8561	0.847	0.9876	0.628	0.9945	0.040	0.9799	0.061	0.9825	0.250	0.9344	0.003	0.9700	0.000	0.9998	0.056	0.9992	0.031	94667	90742	79791	1000
17377	2	+1	0.006950	0.50	9.676	0.30	0.9075	0.633	0.9971	0.146	0.9946	0.101	0.9842	0.173	0.9825	0.250	0.9760	0.010	0.9700	0.000	0.9998	0.121	0.9998	0.110	18452	7482	6341	1000
17378	2	+1	0.014095	0.50	50.264	0.30	0.7980	0.966	0.9849	0.766	0.9951	0.060	0.9807	0.133	0.9825	0.250	0.8728	0.008	0.9700	0.000	0.9991	0.086	0.9990	0.078	32234	13313	20734	1000
17379	2	+1	0.265935	0.50	50.323	0.30	0.8398	0.950	0.9849	0.766	0.9935	0.020	0.9791	0.031	0.9825	0.250	0.9214	0.001	0.9700	0.000	0.9992	0.020	0.9990	0.018	214196	132047	411056	1000
17380	2	+1	0.147349	0.50	50.440	0.30	0.8397	0.952	0.9849	0.768	0.9933	0.030	0.9794	0.041	0.9825	0.250	0.9213	0.002	0.9700	0.000	0.9991	0.026	0.9990	0.024	118713	73147	227111	1000
17384	2	+1	0.169303	0.50	52.254	0.30	0.8360	0.975	0.9843	0.796	0.9938	0.030	0.9792	0.041	0.9825	0.250	0.9175	0.002	0.9700	0.000	0.9991	0.025	0.9990	0.022	135763	83924	267367	1000
17385	2	+1	0.094337	0.50	52.488	0.30	0.8349	0.979	0.9843	0.800	0.9933	0.040	0.9790	0.051	0.9825	0.250	0.9171	0.002	0.9700	0.000	0.9991	0.033	0.9990	0.030	75606	46766	149095	1000
17386	2	+1	0.151042	0.50	51.699	0.30	0.8368	0.968	0.9845	0.788	0.9938	0.030	0.9789	0.041	0.9825	0.250	0.9185	0.004	0.9700	0.000	0.9991	0.026	0.9990	0.024	121273	75118	237211	1000
17387	2	+1	0.061345	0.50	51.323	0.30	0.8388	0.966	0.9846	0.782	0.9945	0.040	0.9796	0.071	0.9825	0.250	0.9193	0.003	0.9700	0.000	0.9991	0.041	0.9990	0.037	49327	30471	95955	1000
run#	tgt A	Hpol (+/-)	accum charge (muC)	(%)	avg current (muA)	(%)	total efficy	(%)	target dens	(%)	HMS trackg	(%)	SOS trackg	(%)	HMSbeta tr	(%)	comp liftime	(%)	pion absrptn	(%)	HMS elec lt	(%)	SOS elect lt	(%)	type1 evts	type2 evts	type3 evts	type evts
17388	1	+1	0.183953	0.50	52.231	0.30	0.8612	1.713	0.9687	1.618	0.9942	0.030	0.9800	0.051	0.9825	0.250	0.9585	0.001	0.9700	0.000	0.9995	0.031	0.9995	0.031	86521	46311	133866	1000
17389	1	+1	0.111824	0.50	52.206	0.30	0.8614	1.714	0.9687	1.617	0.9946	0.040	0.9794	0.071	0.9825	0.250	0.9588	0.002	0.9700	0.000	0.9995	0.040	0.9995	0.040	52621	28207	80969	1000
17390	1	+1	0.006204	0.50	51.124	0.30	0.8625	1.729	0.9693	1.582	0.9929	0.201	0.9809	0.275	0.9825	0.250	0.9595	0.008	0.9700	0.000	0.9995	0.171	0.9995	0.168	2925	1562	4469	1000
17391	1	+1	0.268548	0.50	72.347	0.30	0.8323	2.338	0.9566	2.269	0.9938	0.030	0.9785	0.041	0.9825	0.250	0.9401	0.001	0.9700	0.000	0.9993	0.026	0.9993	0.026	122893	66059	215952	1000
17392	1	+1	0.093159	0.50	72.360	0.30	0.8319	2.340	0.9566	2.269	0.9935	0.050	0.9784	0.072	0.9825	0.250	0.9400	0.002	0.9700	0.000	0.9993	0.044	0.9993	0.043	42672	22895	75047	1000
17393	1	+1	0.195455	0.50	72.363	0.30	0.8313	2.339	0.9566	2.269	0.9930	0.040	0.9786	0.051	0.9825	0.250	0.9396	0.002	0.9700	0.000	0.9993	0.030	0.9993	0.030	89564	48146	158406	1000

run#	tgt A	Hpol (+/-)	accum charge (muC)	(%)	avg current (muA)	(%)	total efficy	(%)	target dens	(%)	HMS trackg	(%)	SOS trackg	(%)	HMSbeta tr	(%)	comp liftime	(%)	pion absrptn	(%)	HMS elec lt	(%)	SOS elect lt	(%)	type1 evts	type2 evts	type3 evts	type evts
17394	1	+1	0.256183	0.50	71.886	0.30	0.8319	2.323	0.9569	2.254	0.9933	0.030	0.9782	0.041	0.9825	0.250	0.9402	0.002	0.9700	0.000	0.9993	0.026	0.9993	0.026	117413	63194	206483	1000
17395	27	+1	0.037092	0.50	21.154	0.30	0.9135	0.597	1.0000	0.000	0.9945	0.090	0.9783	0.164	0.9825	0.250	0.9857	0.002	0.9700	0.000	0.9998	0.070	0.9998	0.062	19690	11679	15410	1000
17396	12	+1	0.008130	0.50	31.128	0.30	0.7262	0.850	1.0000	0.000	0.9932	0.393	0.9769	0.113	0.9825	0.250	0.7855	0.028	0.9700	0.000	0.9999	0.227	1.0000	0.436	1960	114833	198	1000
17397	2	+1	0.007098	0.50	51.758	0.30	0.3887	1.062	0.9845	0.789	0.9934	0.292	0.9739	0.113	0.9825	0.250	0.4287	0.049	0.9700	0.000	0.9991	0.129	0.9998	0.275	2663	157464	693	1000
17402	1	+1	0.017247	0.50	37.041	0.30	0.8580	1.286	0.9778	1.136	0.9932	0.091	0.9795	0.163	0.9825	0.250	0.9479	0.004	0.9700	0.000	0.9989	0.064	0.9996	0.101	17305	4307	15339	1000
17403	1	+1	0.085369	0.50	50.587	0.30	0.8427	1.665	0.9696	1.565	0.9935	0.040	0.9794	0.071	0.9825	0.250	0.9388	0.002	0.9700	0.000	0.9987	0.029	0.9995	0.045	84411	21139	81084	1000
17404	1	+1	0.011212	0.50	51.493	0.30	0.1661	1.727	0.9691	1.594	0.9901	0.313	0.9788	0.041	0.9825	0.250	0.1859	0.091	0.9700	0.000	0.9988	0.079	0.9995	0.125	2191	328495	2229	1000
17405	1	+1	0.068774	0.50	50.964	0.30	0.8272	1.676	0.9694	1.577	0.9937	0.050	0.9792	0.061	0.9825	0.250	0.9217	0.002	0.9700	0.000	0.9988	0.032	0.9995	0.050	66749	66713	64469	1000
17406	1	+1	0.057044	0.50	38.936	0.30	0.8521	1.325	0.9766	1.196	0.9941	0.050	0.9804	0.071	0.9825	0.250	0.9406	0.002	0.9700	0.000	0.9990	0.035	0.9996	0.055	56036	56773	47245	1000
17407	1	+1	0.040005	0.50	42.792	0.30	0.8451	1.437	0.9743	1.318	0.9949	0.050	0.9801	0.082	0.9825	0.250	0.9346	0.003	0.9700	0.000	0.9990	0.042	0.9996	0.066	39558	39283	34692	1000
17408	1	+1	0.234579	0.50	51.151	0.30	0.8273	1.680	0.9693	1.583	0.9938	0.020	0.9796	0.031	0.9825	0.250	0.9215	0.001	0.9700	0.000	0.9987	0.017	0.9995	0.027	227466	227169	218866	1000
17409	1	+1	0.080926	0.50	51.165	0.30	0.8265	1.682	0.9693	1.584	0.9934	0.040	0.9792	0.061	0.9825	0.250	0.9214	0.002	0.9700	0.000	0.9988	0.030	0.9995	0.047	78453	78229	75573	1000
17410	1	+1	0.140856	0.50	51.139	0.30	0.7678	1.680	0.9693	1.583	0.9939	0.020	0.9798	0.041	0.9825	0.250	0.8550	0.002	0.9700	0.000	0.9987	0.022	0.9995	0.035	126647	363389	284529	1000
17411	2	+1	0.046028	0.50	30.848	0.30	0.7277	0.733	0.9907	0.467	0.9942	0.030	0.9803	0.061	0.9825	0.250	0.7924	0.004	0.9700	0.000	0.9986	0.029	0.9994	0.043	70401	300474	229147	1000
17412	2	+1	0.201025	0.50	51.006	0.30	0.7647	0.958	0.9847	0.777	0.9931	0.020	0.9788	0.031	0.9825	0.250	0.8411	0.002	0.9700	0.000	0.9976	0.014	0.9990	0.021	322373	365255	473260	1000
17414	2	+1	0.133812	0.50	51.160	0.30	0.7605	0.960	0.9847	0.779	0.9924	0.020	0.9783	0.031	0.9825	0.250	0.8376	0.002	0.9700	0.000	0.9976	0.017	0.9990	0.025	213390	242131	313295	1000
17415	2	+1	0.073605	0.50	50.866	0.30	0.7637	0.958	0.9847	0.775	0.9926	0.030	0.9782	0.051	0.9825	0.250	0.8409	0.003	0.9700	0.000	0.9977	0.023	0.9990	0.034	117913	133150	170766	1000
17416	2	+1	0.043275	0.50	51.052	0.30	0.7650	0.962	0.9847	0.778	0.9931	0.040	0.9784	0.061	0.9825	0.250	0.8418	0.003	0.9700	0.000	0.9976	0.029	0.9990	0.044	69352	78997	102429	1000
17417	2	+1	0.052340	0.50	50.742	0.30	0.7668	0.957	0.9848	0.773	0.9937	0.040	0.9779	0.051	0.9825	0.250	0.8436	0.003	0.9700	0.000	0.9977	0.027	0.9990	0.040	84121	94960	121372	1000
17418	2	+1	0.205310	0.50	51.219	0.30	0.7619	0.961	0.9846	0.780	0.9929	0.020	0.9779	0.031	0.9825	0.250	0.8391	0.002	0.9700	0.000	0.9976	0.013	0.9990	0.020	327970	372746	483083	1000
17419	2	+1	0.201177	0.50	51.157	0.30	0.7646	0.960	0.9847	0.779	0.9930	0.020	0.9784	0.031	0.9825	0.250	0.8415	0.002	0.9700	0.000	0.9976	0.013	0.9990	0.021	322616	366003	472661	1000
17420	2	+1	0.057852	0.50	51.270	0.30	0.7626	0.964	0.9846	0.781	0.9932	0.040	0.9792	0.051	0.9825	0.250	0.8386	0.003	0.9700	0.000	0.9975	0.025	0.9990	0.038	92521	105571	137205	1000
17421	2	+1	0.079549	0.50	52.432	0.30	0.7607	0.977	0.9843	0.799	0.9929	0.030	0.9790	0.041	0.9825	0.250	0.8372	0.003	0.9700	0.000	0.9975	0.021	0.9990	0.033	126795	144050	190173	1000
17422	27	+1	0.000679	0.50	20.903	0.30	0.9121	0.977	1.0000	0.000	1.0000	0.000	0.9887	0.577	0.9825	0.250	0.9688	0.014	0.9700	0.000	0.9994	0.313	0.9998	0.460	727	845	353	1000
17423	27	+1	0.041049	0.50	20.613	0.30	0.9139	0.582	1.0000	0.000	0.9946	0.080	0.9810	0.122	0.9825	0.250	0.9836	0.001	0.9700	0.000	0.9995	0.041	0.9998	0.059	17821	20652	22452	1000
17424	1	+1	0.056685	0.50	51.800	0.30	0.8746	1.912	0.9689	1.604	0.9929	0.121	0.9728	0.195	0.9825	0.250	0.9806	0.018	0.9700	0.000	1.0000	0.610	1.0000	0.587	11716	24611	5046	1000
17425	1	+1	0.179572	0.50	51.640	0.30	0.8864	1.766	0.9690	1.599	0.9939	0.060	0.9773	0.123	0.9825	0.250	0.9882	0.008	0.9700	0.000	1.0000	0.347	1.0000	0.331	0	23539	16474	1000
17426	1	+1	0.064741	0.50	52.041	0.30	0.8870	1.900	0.9688	1.612	0.9922	0.121	0.9795	0.204	0.9825	0.250	0.9885	0.013	0.9700	0.000	1.0000	0.581	1.0000	0.552	13461	8433	5845	1000
17427	1	+1	0.060873	0.50	41.511	0.30	0.8951	1.635	0.9751	1.277	0.9920	0.121	0.9799	0.204	0.9825	0.250	0.9909	0.012	0.9700	0.000	1.0000	0.591	1.0000	0.568	12660	7964	5546	1000
17428	1	+1	0.121810	0.50	51.139	0.30	0.8872	1.785	0.9693	1.583	0.9943	0.070	0.9770	0.154	0.9825	0.250	0.9887	0.010	0.9700	0.000	1.0000	0.422	1.0000	0.401	25343	15995	11207	1000
17429	2	-1	0.010258	0.50	51.259	0.30	0.7512	1.010	0.9846	0.781	0.9931	0.262	0.9766	0.143	0.9825	0.250	0.8382	0.006	0.9700	0.000	0.9857	0.022	0.9990	0.091	16889	14008	27486	1000
17430	2	-1	0.065688	0.50	51.258	0.30	0.7744	0.973	0.9846	0.781	0.9893	0.142	0.9784	0.051	0.9825	0.250	0.8660	0.002	0.9700	0.000	0.9856	0.009	0.9990	0.036	67039	61359	180671	1000
17431	2	-1	0.037868	0.50	50.289	0.30	0.8235	0.957	0.9849	0.766	0.9902	0.081	0.9783	0.092	0.9825	0.250	0.9197	0.003	0.9700	0.000	0.9857	0.011	0.9990	0.047	19242	38086	52403	1000
17432	2	-1	0.148335	0.50	51.617	0.30	0.7575	0.967	0.9845	0.786	0.9888	0.030	0.9784	0.041	0.9825	0.250	0.8478	0.002	0.9700	0.000	0.9853	0.006	0.9990	0.024	348535	273199	191739	1000
17433	2	-1	0.017425	0.50	59.655	0.30	0.7599	1.084	0.9821	0.911	0.9862	0.112	0.9769	0.123	0.9825	0.250	0.8583	0.006	0.9700	0.000	0.9830	0.017	0.9988	0.070	24267	25711	26099	1000
17434	2	-1	0.169038	0.50	59.673	0.30	0.7598	1.071	0.9821	0.911	0.9880	0.030	0.9782	0.041	0.9825	0.250	0.8555	0.002	0.9700	0.000	0.9830	0.005	0.9988	0.022	234102	248604	251511	1000
17435	2	-1	0.159305	0.50	60.802	0.30	0.7580	1.086	0.9818	0.929	0.9872	0.041	0.9772	0.041	0.9825	0.250	0.8556	0.002	0.9700	0.000	0.9827	0.006	0.9988	0.023	220567	234388	239950	1000
17436	2	-1	0.200694	0.50	51.092	0.30	0.7995	0.959	0.9847	0.778	0.9889	0.030	0.9788	0.031	0.9825	0.250	0.8821	0.005	0.9700	0.000	0.9989	0.001	0.9990	0.021	288443	304873	269259	1000
17437	2	-1	0.177461	0.50	51.714	0.30	0.7869	0.968	0.9845	0.788	0.9887	0.030	0.9791	0.041	0.9825	0.250	0.8804	0.002	0.9700	0.000	0.9851	0.005	0.9990	0.022	254383	269123	240835	1000
17438	2	-1	0.177015	0.50	53.077	0.30	0.7821	0.985	0.9841	0.809	0.9879	0.030	0.9787	0.041	0.9825	0.250	0.8769	0.002	0.9700	0.000	0.9847	0.005	0.9990	0.022	252354	267572	244018	1000
17439	2	-1	0.193646	0.50	51.742	0.30	0.7848	0.968	0.9845	0.788	0.9891	0.030	0.9786	0.031	0.9825	0.250	0.8782	0.002	0.9700	0.000	0.9850	0.005	0.9990	0.021	276750	293438	261812	1000
17440	27	-1	0.040184	0.50	31.077	0.30	0.8850	0.583	1.0000	0.000	0.9916	0.091	0.9766	0.123	0.9825	0.250	0.9650	0.003	0.9700	0.000	0.9941	0.013	0.9996	0.060	34108	38950	12428	1000
17441	27	-1	0.030234	0.50	31.053	0.30	0.9045	0.606	1.0000	0.000	0.9917	0.171	0.9805	0.143	0.9825	0.250	0.9782	0.004	0.9700	0.000	0.9982	0.027	0.9997	0.069	7938	29662	4132	1000
17444	2	-1	0.173324	0.50	51.676	0.30	0.8416	0.968	0.9845	0.787	0.9920	0.040	0.9781	0.041	0.9825	0.250	0.9297	0.002	0.9700	0.000	0.9953	0.009	0.9990	0.022	80044	278764	97753	1000
17445	2	-1	0.068590	0.50	51.793	0.30	0.8584	0.973	0.9845	0.789	0.9924	0.060	0.9789	0.082	0.9825	0.250	0.9472	0.003	0.9700	0.000	0.9953	0.015	0.9990	0.035	36588	53099	39537	1000
17446	2	-1	0.164572	0.50	51.468	0.30	0.8590	0.965	0.9846	0.784	0.9921	0.040	0.9789	0.051	0.9825	0.250	0.9480	0.002	0.9700	0.000	0.9954	0.009	0.9990	0.023	87879	128330	94646	1000
17447	2	-1	0.176127	0.50	51.742	0.30	0.8590	0.969	0.9845	0.788	0.9924	0.040	0.9790	0.051	0.9825	0.250	0.9478	0.002	0.9700	0.000	0.9953	0.009	0.9990	0.022	93976	137235	101670	1000
17448	2	-1	0.132930	0.50	51.522	0.30	0.8587	0.967	0.9845	0.785	0.9917	0.050	0.9791	0.061	0.9825	0.250	0.9479	0.002	0.9700	0.000	0.9953	0.011	0.9990	0.025	70942	103740	76698	1000
17449	2	-1	0.011617	0.50	81.952	0.30	0.8168	1.402	0.9754	1.260	0.9918	0.151	0.9816	0.183	0.9825	0.250	0.9107	0.011	0.9700	0.000	0.9926	0.036	0.9984	0.085	5899	8711	8890	1000
17450	2	-1	0.085273	0.50	50.909	0.30	0.8609	0.960	0.9847	0.775	0.9927	0.050	0.9796	0.071	0.9825	0.250	0.9486	0.003	0.9700	0.000	0.9954	0.013	0.9990	0.031	45564	66372	48907	1000
17451	2	-1	0.137442	0.50	58.392	0.30	0.8471	1.056	0.9825	0.891	0.9918	0.050	0.9782	0.061	0.9825	0.250	0.9386	0.002	0.9700	0.000	0.9947	0.010	0.9988	0.025	72464	106041	85910	1000
17452	2	-1	0.163132	0.50	52.554	0.30	0.8576	0.979	0.9842	0.801	0.9920	0.040	0.9791	0.051	0.9825	0.250	0.9467	0.002	0.9700	0.000	0.9953	0.010	0.9990	0.023	86961	127074	95496	1000
17453	2	-1	0.049564	0.50	52.659	0.30	0.8073	0.985	0.9842	0.803	0.9932	0.070	0.9778	0.082	0.9825	0.250	0.8914	0.003	0.9700	0.000	0.9953	0.017	0.9990	0.041	75043	36230	71431	1000
17454	2	-1	0.013908	0.50	50.019	0.30	0.8585	0.978	0.9850	0.762	0.9913	0.151	0.9787	0.184	0.9825	0.250	0.9481	0.007	0.9700	0.000	0.9953	0.033	0.9989	0.078	7428	10837	7944	1000
17458	2	-1	0.170887	0.50	51.295	0.30	0.8599	0.963	0.9846	0.781	0.9921	0.040	0.9798	0.051	0.9825	0.250	0.9480	0.002	0.9700	0.000	0.9954	0.009	0.9990	0.022	90827	133161	98832	1000
17459	1	-1	0.133941	0.50	51.796	0.30	0.8787	1.703	0.9689	1.604	0.9940	0.070	0.9806	0.092	0.9825	0.250	0.9791	0.002	0.9700	0.000	0.9976	0.014	0.9995	0.036	32899	52301	17175	1000
17460	2	-1	0.014423	0.50	52.571	0.30	0.1243	1.282	0.9842	0.801	0.9928	0.040	0.9786	0.133	0.9825	0.250	0.1364	0.785	0.9700	0.000	0.9996	0.126	0.9998	0.192	271543	102622	26	1000
17461	12	-1	0.001026	0.50	31.435	0.30	0.4028	2.028	1.0000	0.000	0.9957	0.090	0.9809	0.387	0.9825	0.250	0.4328	1.269	0.9700	0.000	0.9999	0.745	1.0000	1.216	21947	8134	0	1000
17462	12	-1	0.010149	0.50	20.252	0.30	0.5321	0.778	1.0000	0.000	0.9943	0.030	0.9776	0.123	0.9825	0.250	0.5745	0.264	0.9700	0.000	0.9999	0.236	1.0000	0.388	287527	105897	5	1000
17463	2	-1	0.006150	0.50	49.642	0.30	0.8872	1.020	0.9851	0.756	0.9971	0.201	0.9801	0.306	0.9825	0.250	0.9694	0.013	0.9700	0.000	0.9986	0.088	0.9990	0.117	1028	4886	1454	1000
17464	2	-1	0.016539	0.50	49.553	0.30	0.8893	0.991	0.9851	0.755	0.9963	0.141	0.9735	0.267	0.9825	0.250	0.9789	0.006	0.9700	0.000	0.9986	0.054	0.9990	0.072	2792	6624	3890	1000
17465	2	-1	0.035686	0.50	53.427	0.30	0.8958	1.016	0.9840	0.814	0.9926	0.141	0.9813	0.183	0.9825	0.250	0.9833	0.004	0.9700	0.000	0.9985	0.036	0.9989	0.049	4123	7196	8650	1000
17466	2	-1	0.130905	0.50	51.879	0.30	0.8970	0.977	0.9844	0.790	0.9943	0.070	0.9792	0.102	0.9825	0.250	0.9845	0.002	0.9700	0.000	0.9986	0.019	0.9990	0.025	15149	26462	31109	1000
17467	2	-1	0.056919	0.50	51.943	0.30	0.8962	0.987	0.9844	0.791	0.9939	0.101	0.9787	0.153	0.9825	0.250	0.9845	0.003	0.9700	0.000	0.9986	0.029	0.9990	0.039	6596	11469	13418	1000
17468	2	-1	0.059469	0.50	80.408	0.30	0.8713	1.372	0.9759	1.236	0.9921	0.111	0.9742	0.164	0.9825	0.250	0.9731	0.004	0.9700	0.000	0.9978	0.028	0.9984	0.038	6761	11878	17643	1000
17469	2	-1	0.146856	0.50	51.676	0.30	0.8967	0.972	0.9845	0.787	0.9946	0.060	0.9785	0.092	0.9825	0.250	0.9845	0.002	0.9700	0.000	0.9986	0.018	0.9990	0.024	16963	29687	35059	1000
17470	2	-1	0.176058	0.50	51.850	0.30	0.8959	0.974	0.9844	0.790	0.9935	0.060	0.9787	0.082	0.9825	0.250	0.9845	0.002	0.9700	0.000	0.9986	0.016	0.9990	0.022	20343	35601	41831	1000
17471	2	-1	0.254197	0.50	51.472	0.30	0.8920	0.967	0.9846	0.784	0.9931	0.050	0.9795	0.071	0.9825	0.250	0.9797	0.002	0.9700	0.000	0.9986	0.014	0.9990	0.018	29249	51167	59884	1000

17472	2	−1	0.249988	0.50	51.508	0.30	0.8950	0.968	0.9845	0.785	0.9927	0.050	0.9783	0.072	0.9825	0.250	0.9846	0.001	0.9700	0.000	0.9986	0.014	0.9990	0.018	28927	50632	59271	1000
17473	2	−1	0.210009	0.50	53.112	0.30	0.8941	0.989	0.9841	0.810	0.9936	0.050	0.9776	0.082	0.9825	0.250	0.9840	0.002	0.9700	0.000	0.9985	0.015	0.9989	0.020	24254	42584	50480	1000
17474	27	−1	0.061516	0.50	33.054	0.30	0.9259	0.621	1.0000	0.000	0.9956	0.141	0.9811	0.224	0.9825	0.250	0.9956	0.002	0.9700	0.000	0.9994	0.035	0.9996	0.049	4200	7333	4020	1000
17475	2	−1	0.000398	0.50	11.317	0.30	0.3263	*****	0.9966	0.170	1.0000	0.000	1.0000	0.000	0.9825	0.250	0.3445	8.288	0.9700	0.000	0.9972	0.104	1.0000	5.878	41509	0	0	1000