

**Events from root trees**

Run Number	elclean	elreal	eltrack	total time	time beam on	ratio of time	Current [uA]	Charge [uC]	Charge (offset) [uC]	yield (elclean)
1415	1.94E+04	2.78E+04	1.80E+05	600	405	0.68	2	810	891	2.40E+01
1416	5.96E+04	8.62E+04	1.95E+05	840	205	0.24	7	1435	1476	4.15E+01
1417	1.02E+05	1.47E+05	2.04E+05	420	225	0.54	10	2250	2295	4.53E+01
1418	2.07E+05	1.60E+05	2.78E+05	360	225	0.63	20	4500	4545	4.60E+01
1419	2.37E+05	3.40E+05	2.21E+05	360	195	0.54	30	5850	5889	4.05E+01
1420	3.84E+05	5.50E+05	1.86E+05	300	185	0.62	40	7400	7437	5.19E+01
1421	3.88E+05	5.57E+05	1.87E+05	240	150	0.63	50	7500	7530	5.17E+01
1422	3.71E+05	5.32E+05	1.86E+05	240	160	0.67	60	9600	9632	3.86E+01
1423	8.99E+05	1.29E+06	3.61E+05	960	390	0.41	65	25350	25428	3.55E+01

Avg.

**Events from output [o]**

Run Number	elclean	elreal	eltrack	total time	time beam on	ratio of time	Current [uA]	Charge [uC]	Charge (offset) [uC]	yield (elclean)
1415	9.96E+04	1.47E+05	1.80E+05	600	405	0.68	2	810	891	1.23E+02
1416	1.25E+05	1.81E+05	1.95E+05	840	205	0.24	7	1435	1476	8.73E+01
1417	2.08E+05	3.00E+05	2.04E+05	420	225	0.54	10	2250	2295	9.24E+01
1418	4.25E+05	6.11E+05	2.78E+05	360	225	0.63	20	4500	4545	9.45E+01
1419	5.20E+05	7.46E+05	2.21E+05	360	195	0.54	30	5850	5889	8.89E+01
1420	7.61E+05	1.09E+06	1.86E+05	300	185	0.62	40	7400	7437	1.03E+02
1421	7.66E+05	1.10E+06	1.87E+05	240	150	0.63	50	7500	7530	1.02E+02
1422	7.72E+05	1.11E+06	1.86E+05	240	160	0.67	60	9600	9632	8.04E+01
1423	1.50E+06	2.16E+06	3.61E+05	960	390	0.41	65	25350	25428	5.93E+01

Avg.

Rel yield (elclean)	Rate (elclean) [kHz]	yield (elreal)	Rel yield (elreal)	Rate (elreal) [kHz]	yield (eltrack)	Rel yield (eltrack)	Rate (hS1X) [kHz]
5.91E-01	0.245	3.43E+01	5.91E-01	0.36	2.22E+02	5.87E+00	2.03
1.03E+00	0.615	6.01E+01	1.03E+00	0.9	1.36E+02	3.60E+00	4.16
1.12E+00	0.945	6.53E+01	1.12E+00	1.37	9.09E+01	2.41E+00	6.05
1.14E+00	1.93	3.56E+01	6.12E-01	1.489	6.19E+01	1.64E+00	11.9
1.00E+00	2.79	5.81E+01	1.00E+00	4	3.78E+01	1.00E+00	17
1.28E+00	4.14	7.43E+01	1.28E+00	5.92	2.52E+01	6.66E-01	25.2
1.28E+00	5.18	7.43E+01	1.28E+00	7.45	2.49E+01	6.60E-01	31.4
9.54E-01	5.07	5.54E+01	9.53E-01	7.23	1.94E+01	5.13E-01	30.7
8.75E-01	3.19	5.09E+01	8.76E-01	6.06	1.42E+01	3.77E-01	26
1.03E+00		<b>Avg.</b>	9.72E-01		<b>Avg.</b>	1.86E+00	

Rel yield (elclean)	Rate (elclean) [kHz]	yield (elreal)	Rel yield (elreal)	Rate (elreal) [kHz]	yield (eltrack)	Rel yield (eltrack)	Rate (hS1X) [kHz]
1.38E+00	0.245	1.81E+02	1.42E+00	0.36	2.22E+02	5.87E+00	2.03
9.82E-01	0.615	1.26E+02	9.92E-01	0.9	1.36E+02	3.60E+00	4.16
1.04E+00	0.945	1.33E+02	1.05E+00	1.37	9.09E+01	2.41E+00	6.05
1.06E+00	1.93	1.36E+02	1.07E+00	1.489	6.19E+01	1.64E+00	11.9
1.00E+00	2.79	1.27E+02	1.00E+00	4	3.78E+01	1.00E+00	17
1.16E+00	4.14	1.47E+02	1.16E+00	5.92	2.52E+01	6.66E-01	25.2
1.15E+00	5.18	1.47E+02	1.15E+00	7.45	2.49E+01	6.60E-01	31.4
9.04E-01	5.07	1.15E+02	9.04E-01	7.23	1.94E+01	5.13E-01	30.7
6.66E-01	3.19	8.50E+01	6.67E-01	6.06	1.42E+01	3.77E-01	26
1.04E+00		<b>Avg.</b>	1.04E+00		<b>Avg.</b>	1.86E+00	

<b>HMS Computer DT [%]</b>	<b>Total DT (EDTM) [%]</b>	<b>Cherenkov Efficiency</b>	<b>3/4 Efficiency</b>
18.2	11.9	0.517117	0.999907
29.3	25.6	0.518262	0.9998994
55.7	55.5	0.51594	0.999893
70.3	69.8	0.518617	1.00E+00
80.7	81.9	0.518608	0.999897
88.9	89.7	0.517477	0.999882
88.9	87.2	0.520328	0.999897
89	88.8	0.519624	0.999881
89.1	88.6	0.519081	0.999889

<b>HMS Computer DT [%]</b>	<b>Total DT (EDTM) [%]</b>	<b>Cherenkov Efficiency</b>	<b>3/4 Efficiency</b>
18.2	11.9	0.517117	0.999907
29.3	25.6	0.518262	0.9998994
55.7	55.5	0.51594	0.999893
70.3	69.8	0.518617	1.00E+00
80.7	81.9	0.518608	0.999897
88.9	89.7	0.517477	0.999882
88.9	87.2	0.520328	0.999897
89	88.8	0.519624	0.999881
89.1	88.6	0.519081	0.999889

















