

Antihydrogen Lifetime estimates

Cosmic rate in standard window

0.045 /s

Run	Time	end of stack	end of hold	Delta t	backgr.	pcs	pcs-back	total pcs	rate [1/s]	lifetime [h]	Error [h]	MW [pc] (160s)	MW [norm]	MW error	Comment
68772	17-09-23	32613.3	34574	1960.7	88.2	148	59.8	3355	9.16782E-06	30.3	3.9	11	4.5	1.4	2xECR, 2xMWc, LCd 14k, LyAd, FRD
68814	21-09-23	44787	46398	1611	72.5	160	87.5	3944	1.39272E-05	19.9	2.1	42.0	35.3	5.4	2xECR, 1xMWc, LCd 9.2k, LyAd, 1xMWc, LyAd, 1xMWc, LyAd, 4xECR, FRD15s
68839	22-09-23	29023	31707	2684	120.8	194	73.2	4099	6.71548E-06	41.4	4.8	57.0	48.6	6.4	2xECR, 2xMWc, LCd 11.7k, LyAd, 2xECR, 1xMWcd, FRD
68847	23-09-23	22050.2	24311	2260.5	101.7	169	67.3	1869	1.62178E-05	17.1	2.1				2xECR, 2xMWc, LCd 10.32k, LyAd, 2xECR, FRD
68855	23-09-23	11178.8	12650	1470.9	66.2	78	11.8	1708	4.717E-06	58.9	17.1	25.0	41.7	8.3	3xECR, 2xMWc, LyAd, 2xECR, hFRD
68859	24-09-23	19677	21962	2285	102.8	184	81.2	2964	1.21527E-05	22.9	2.5	73.0	88.8	10.4	3xECR, 2xMWc, LCd 10k, LyAd, 2xECR, 1xMWc, FRD
68865	24-09-23	13575.6	15041	1465.2	65.9	86	20.1	1957	7.03411E-06	39.5	8.8	27.0	40.5	7.8	4xECR, 2xMWc, LCd 5.1k, LyAd, 3xECR, MWc, hFRD
68871	25-09-23	18832	21468	2636	118.6	191	72.4	3380	8.21199E-06	33.8	4.0	68.0	72.0	8.7	4xECR, 2xMWc, LCd 15k, 3xECR, 243dd, 3xECR, FRD
68890	27-09-23	22438	48236	25798	1160.9	1826	665.1	3537	8.07433E-06	34.4	1.3				Stochastic Heating, FRD
68903	28-09-23	25368	29748	4380	197.1	345	147.9	3336	1.03533E-05	26.8	2.2	93.0	102.9	10.7	9xECR, 2xMWc, LCd 11x2k, LyAd, FRD
68905	29-09-23	24773	26299	1526	68.7	132	63.3	3865	1.08265E-05	25.7	3.2	120.0	116.7	10.7	2xECR, 2xMWc, LCd 11x2k, LyAd, FRD
68916	01-10-23	36180	40179	3999	180.0	395	215.0	3581	1.54865E-05	17.9	1.2				1xECR, 2xMWc, LCd 11x2k, LyAd, 4xECR, FRD [LyA kickout WITH MW]
68927	02-10-23	17011.3	19074	2063	92.8	164	71.2	2313	1.51482E-05	18.3	2.2	78.0	122.4	13.9	3xECR, 4xMWc, LCd 11x2k, LyAd, 3xECR, FRD
															Short thermal cycle
68994	05-10-23	18051.9	19532	1480.4	66.6	104	37.4	2530	1.00552E-05	27.6	4.5	10.0	4.4	1.4	2xECR, 2xMWc, LCd 12k, LyAd, 4xECR, hFRD
69014	05-10-23	47863	49707	1844	83.0	155	72.0	5703	6.89201E-06	40.3	4.7	9.0	1.3	0.4	3xECR, 2xMWc, LCd 14k, 5xECR, 243dd, 3xECR, hFRD
69026	06-10-23	56651.6	59877	3225.5	145.1										8xECR, 2xMWc, LCd 13.7k, 3xECR, 243dd, 3xECR, hFRD
69029	08-10-23	50089	53780	3691	166.1	324	157.9	5849	7.4148E-06	37.5	3.0				3xECR, LCd 12k, 3xECR, 243dd, 3xECR, 2xMWc, hFRD
69037	09-10-23	45571	48085	2514	113.1	213	99.9	6158	6.50393E-06	42.7	4.3				3xECR, LCd 12k, 3xECR, LCd 3x2k, 243dd, 3xECR, 2xMWc, hFRD
69044	10-10-23	16193.2	23080	6940.4	312.3	422	109.7	2074	7.82866E-06	35.5	3.4	11.0	2.5	0.7	11xECR, 3xMWc, 4xECR, LCd 12k, 2xECR, LyAd, 2xECR, hFRD 15s
69081	11-10-23	42206	45671	3465	155.9	238	82.1	3558	6.73534E-06	41.2	4.6	7.0	-0.2	-0.1	10xECR, 2xMWc, LCd 16k, LyAd, hFRD
69092	12-10-23	46103	47294	1191	53.6	98	44.4	5648	6.62733E-06	41.9	6.3	15.0	5.5	1.4	2xECR, 2xMWc, LCd 16k, 2xECR 243dd, 2xECR, hFRD
69111	14-10-23	23646	24585	939	42.3	82	39.7	3984	1.06776E-05	26.0	4.1	21.0	13.9	3.0	3xECR, 2xMWc, LCd 16k, hFRD [saturated and corrected]
69117	14-10-23	49320	53900	4580	206.1	358	151.9	6232	5.38781E-06	51.6	4.2				2xECR, LCd 16k, 2xECR, 243dd, 2xECR, LCc 16k, 2xECR, 243cc, 2xECR, hFRD
69126	16-10-23	45735	47866	2131	95.9	206	110.1	6283	8.29641E-06	33.5	3.2	142.0	85.8	7.2	3xECR, 2xMWc, LCd 16k, Morph, 3xECR, 243dd, ECR, hFRD