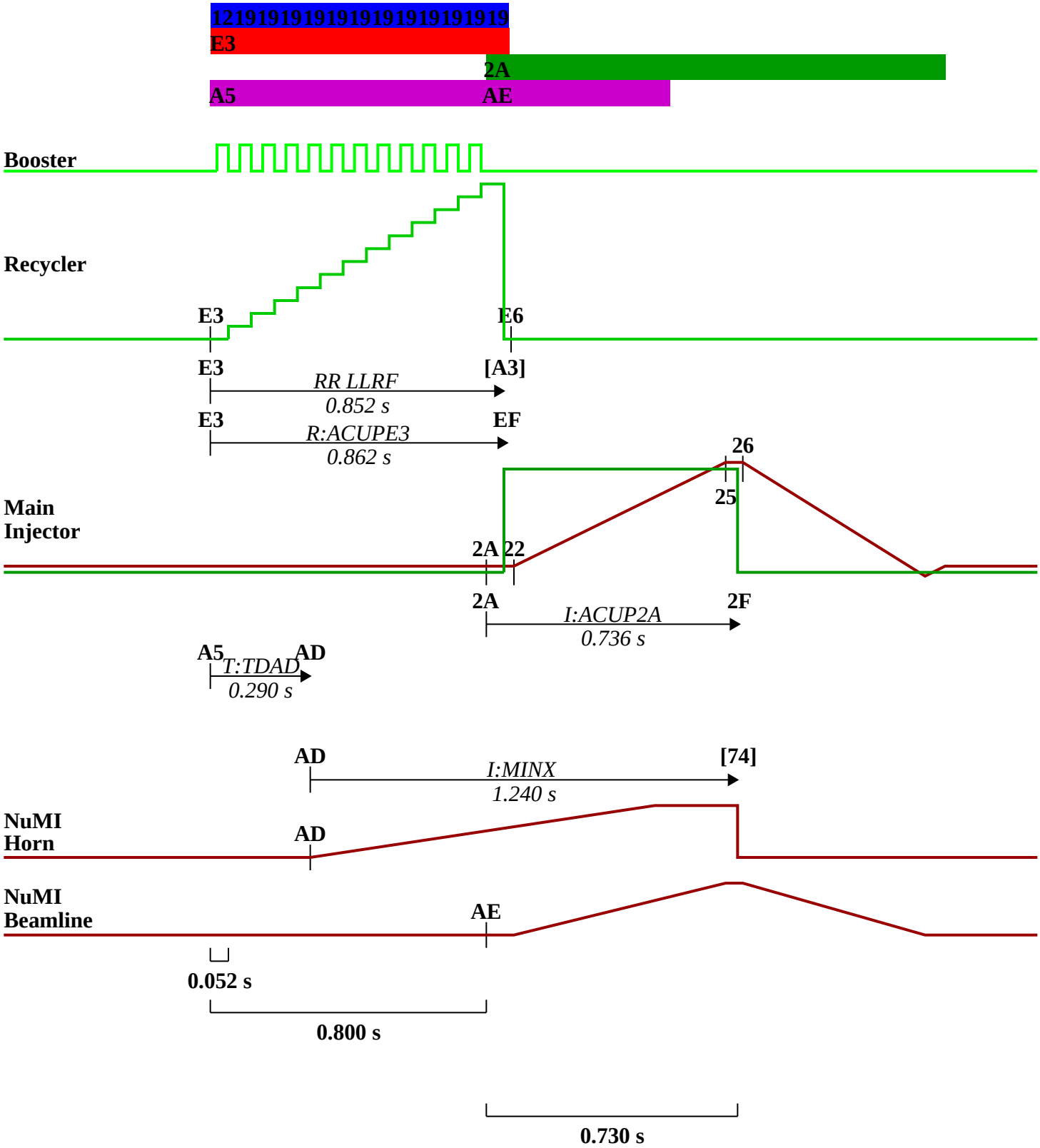
NOvA/ANU TLG and timing

Draft 07/09/2013

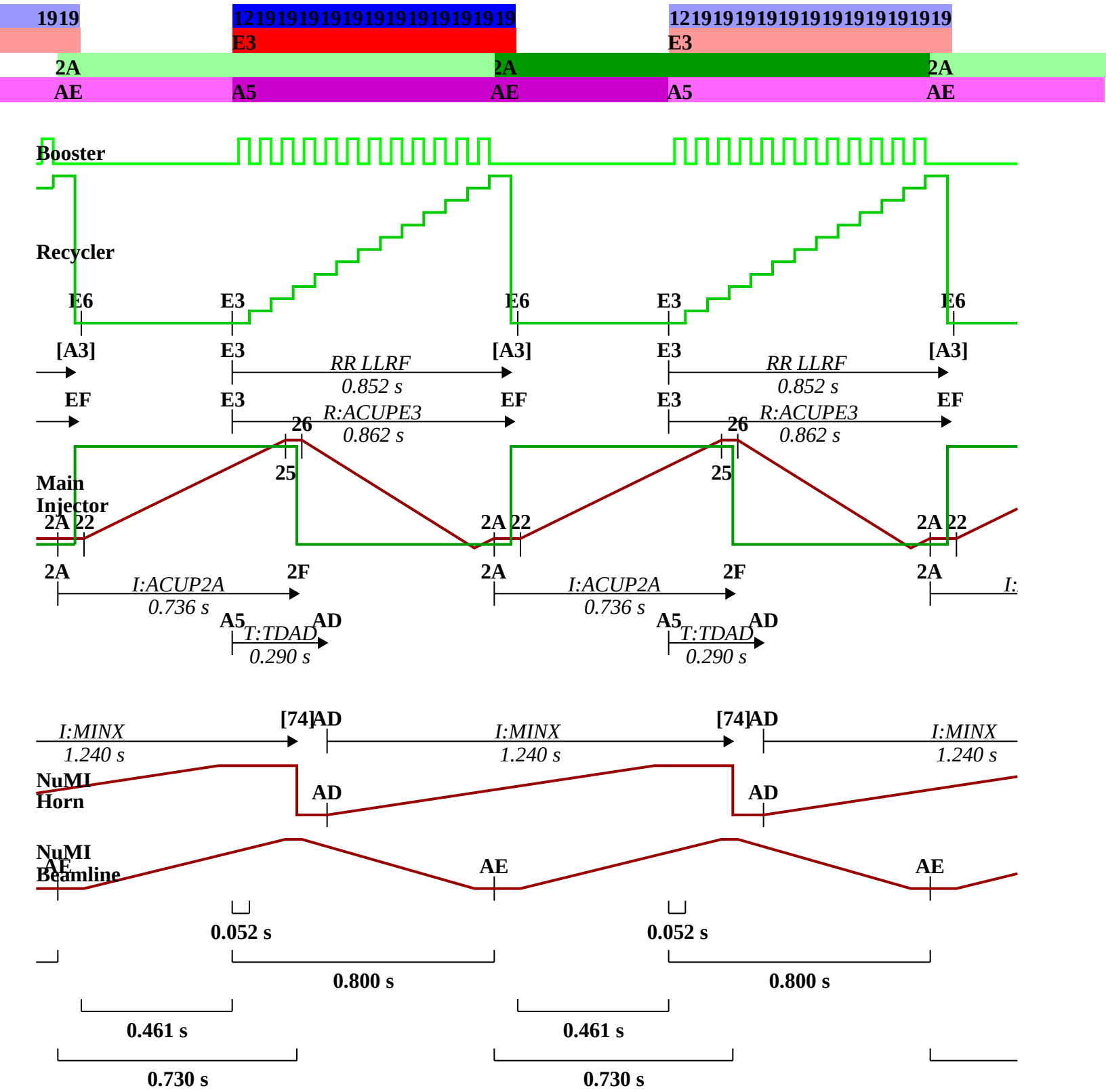


NOvA/ANU Event list

-0.0499	*$12*
-0.0002	*$BE*
-0.0001	*$DE*
0.0000	*$A5*
0.0000	*$E3*
0.0168	*$19*
0.0520	*$1F*
0.0664	*$BE*
0.0834	*$19*
0.1186	*$1F*
0.1331	*$BE*
0.1501	*$19*
0.1853	*$1F*
0.1998	*$BE*
0.2168	*$19*
0.2520	*$1F*
0.2664	*$BE*
0.2834	*$19*
0.2900	*$AD*
0.3186	*$1F*
0.3331	*$BE*
0.3501	*$19*
0.3853	*$1F*
0.3998	*$BE*
0.4168	*$19*
0.4520	*$1F*
0.4664	*$BE*
0.4834	*$19*
0.5186	*$1F*
0.5331	*$BE*
0.5501	*$19*
0.5853	*$1F*
0.5998	*$BE*
0.6168	*$19*
0.6520	*$1F*
0.6664	*$BE*
0.6834	*$19*
0.7186	*$1F*
0.7331	*$BE*
0.7501	*$19*
0.7853	*$1F*
0.8000	*$2A*
0.8000	*$AE*
0.8520	*[$A3]*
0.8620	*$EF*
0.8720	*$E6*
0.8800	*$22*
1.4955	*$25*
1.5300	*[$74]*
1.5355	*$2F*
1.5455	*$26*

Draft 07/09/2013

NOvA/ANU as placed in timeline

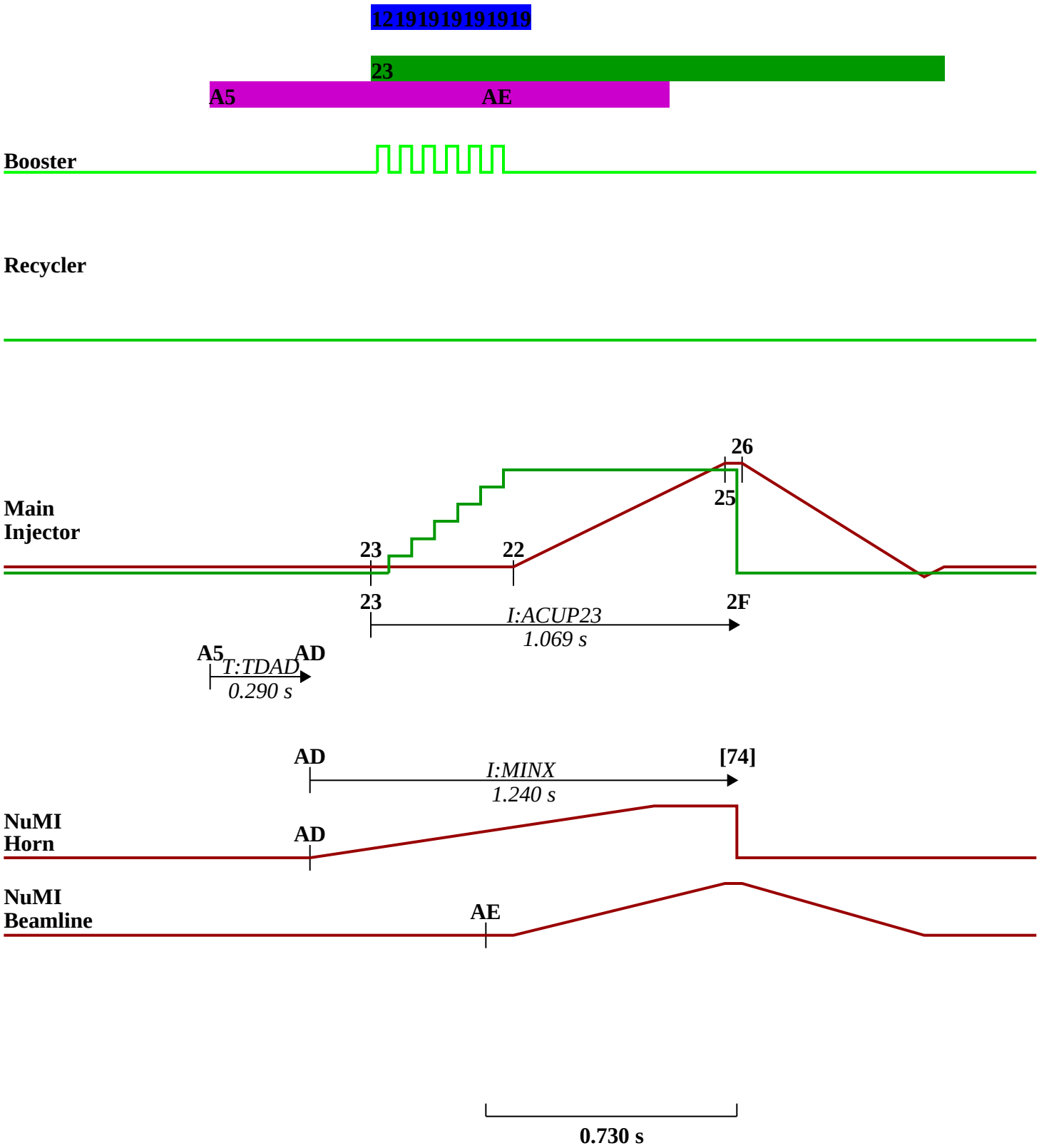


NOvA/ANU Event list

-1.3832	$12	-0.5480	$1F	0.5331	$BE	1.6233	$AD
-1.3336	$BE	-0.5333	$2A	0.5501	$19	1.6520	$1F
-1.3334	$DE	-0.5333	$AE	0.5853	$1F	1.6664	$BE
-1.3333	$A5	-0.4814	[$A3]	0.5998	$BE	1.6834	$19
-1.3333	$E3	-0.4714	$EF	0.6168	$19	1.7186	$1F
-1.3166	$19	-0.4614	$E6	0.6520	$1F	1.7331	$BE
-1.2814	$1F	-0.4533	$22	0.6664	$BE	1.7501	$19
-1.2669	$BE	-0.0499	$12	0.6834	$19	1.7853	$1F
-1.2499	$19	-0.0002	$BE	0.7186	$1F	1.7998	$BE
-1.2147	$1F	-0.0001	$DE	0.7331	$BE	1.8168	$19
-1.2002	$BE	0.0000	$A5	0.7501	$19	1.8520	$1F
-1.1832	$19	0.0000	$E3	0.7853	$1F	1.8664	$BE
-1.1480	$1F	0.0168	$19	0.8000	$2A	1.8834	$19
-1.1336	$BE	0.0520	$1F	0.8000	$AE	1.9186	$1F
-1.1166	$19	0.0664	$BE	0.8520	[$A3]	1.9331	$BE
-1.0814	$1F	0.0834	$19	0.8620	$EF	1.9501	$19
-1.0669	$BE	0.1186	$1F	0.8720	$E6	1.9853	$1F
-1.0499	$19	0.1331	$BE	0.8800	$22	1.9998	$BE
-1.0433	$AD	0.1501	$19	1.2834	$12	2.0168	$19
-1.0147	$1F	0.1622	$25	1.3331	$BE	2.0520	$1F
-1.0002	$BE	0.1853	$1F	1.3332	$DE	2.0664	$BE
-0.9832	$19	0.1967	[$74]	1.3333	$E3	2.0834	$19
-0.9480	$1F	0.1998	$BE	1.3333	$A5	2.1186	$1F
-0.9336	$BE	0.2022	$2F	1.3501	$19	2.1333	$2A
-0.9166	$19	0.2122	$26	1.3853	$1F	2.1333	$AE
-0.8814	$1F	0.2168	$19	1.3998	$BE	2.1853	[$A3]
-0.8669	$BE	0.2520	$1F	1.4168	$19	2.1953	$EF
-0.8499	$19	0.2664	$BE	1.4520	$1F	2.2053	$E6
-0.8147	$1F	0.2834	$19	1.4664	$BE	2.2133	$22
-0.8002	$BE	0.2900	$AD	1.4834	$19	2.8288	$25
-0.7832	$19	0.3186	$1F	1.4955	$25	2.8633	[$74]
-0.7480	$1F	0.3331	$BE	1.5186	$1F	2.8688	$2F
-0.7336	$BE	0.3501	$19	1.5300	[$74]	2.8788	$26
-0.7166	$19	0.3853	$1F	1.5331	$BE		
-0.6814	$1F	0.3998	$BE	1.5355	$2F		
-0.6669	$BE	0.4168	$19	1.5455	$26		
-0.6499	$19	0.4520	$1F	1.5501	$19		
-0.6147	$1F	0.4664	$BE	1.5853	$1F		
-0.6002	$BE	0.4834	$19	1.5998	$BE		
-0.5832	$19	0.5186	$1F	1.6168	$19		

MI-only NOvA

Draft 07/09/2013

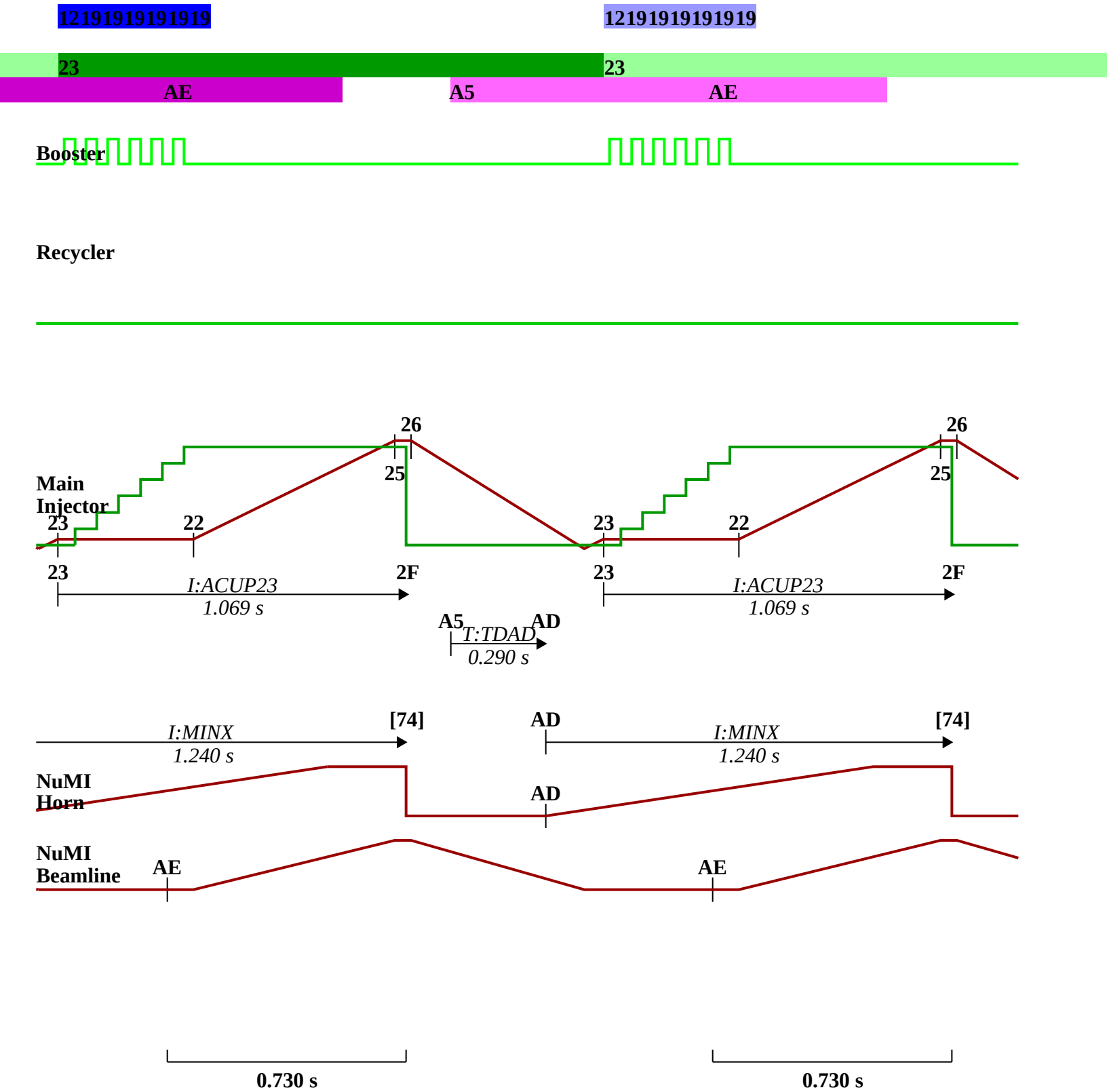


NOvA/ANU Event list

0.0000 $A5
0.2900 $AD
0.4168 $12
0.4664 $BF
0.4667 $23
0.4834 $19
0.5186 $1F
0.5331 $BF
0.5501 $19
0.5853 $1F
0.5998 $BF
0.6168 $19
0.6520 $1F
0.6664 $BF
0.6834 $19
0.7186 $1F
0.7331 $BF
0.7501 $19
0.7853 $1F
0.7998 $BF
0.8000 $AE
0.8168 $19
0.8520 $1F
0.8800 $22
1.4955 $25
1.5300 [$74]
1.5355 $2F
1.5455 $26

MI-only NOvA as placed in timeline

Draft 07/09/2013

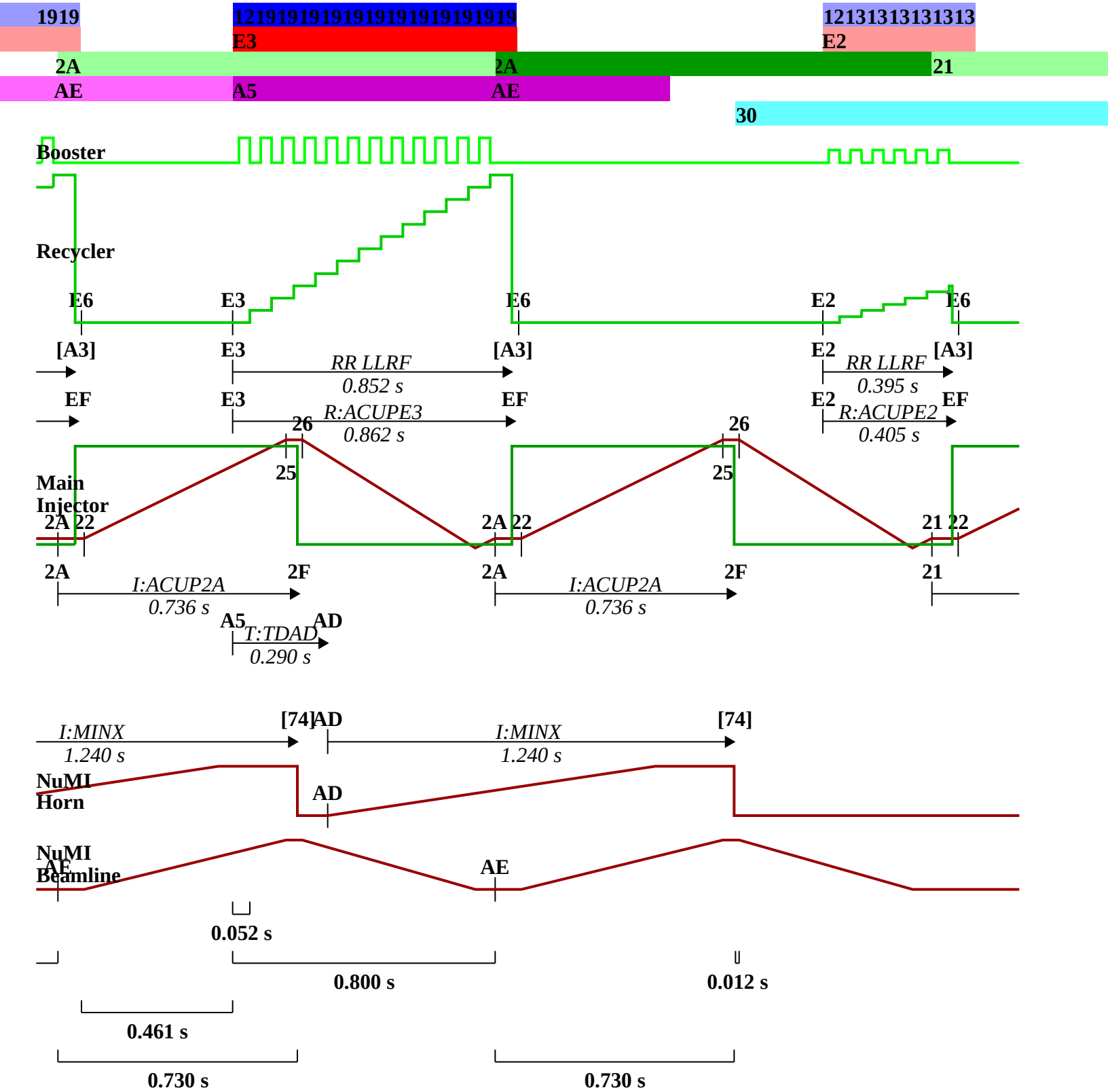


NOvA/ANU Event list

-2.6667	$A5
-2.3767	$AD
-2.2499	$12
-2.2002	$BF
-2.2000	$23
-2.1832	$19
-2.1480	$1F
-2.1336	$BF
-2.1166	$19
-2.0814	$1F
-2.0669	$BF
-2.0499	$19
-2.0147	$1F
-2.0002	$BF
-1.9832	$19
-1.9480	$1F
-1.9336	$BF
-1.9166	$19
-1.8814	$1F
-1.8669	$BF
-1.8667	$AE
-1.8499	$19
-1.8147	$1F
-1.7867	$22
-1.1712	$25
-1.1367	[$74]
-1.1312	$2F
-1.1212	$26
-1.0000	$A5
-0.7100	$AD
-0.5832	$12
-0.5336	$BF
-0.5333	$23
-0.5166	$19
-0.4814	$1F
-0.4669	$BF
-0.4499	$19
-0.4147	$1F
-0.4002	$BF
-0.3832	$19
-0.3480	$1F
-0.3336	$BF
-0.3166	$19
-0.2814	$1F
-0.2669	$BF
-0.2499	$19
-0.2147	$1F
-0.2002	$BF
-0.2000	$AE
-0.1832	$19
-0.1480	$1F
-0.1200	$22
0.4955	$25
0.5300	[$74]
0.5355	$2F
0.5455	$26
0.6667	$A5
0.9567	$AD
1.0834	$12
1.1331	$BF
1.1333	$23
1.1501	$19
1.1853	$1F
1.1998	$BF
1.2168	$19
1.2520	$1F
1.2664	$BF
1.2834	$19
1.3186	$1F
1.3331	$BF
1.3501	$19
1.3853	$1F
1.3998	$BF
1.4168	$19
1.4520	$1F
1.4664	$BF
1.4667	$AE
1.4834	$19
1.5186	$1F
1.5467	$22
2.1622	$25
2.1967	[$74]
2.2022	$2F
2.2122	$26

NOvA plus SY120

Draft 07/09/2013



NOvA/ANU Event list

-1.3832	$12	-0.5480	$1F	0.5331	$BE	2.1186	$1F
-1.3336	$BE	-0.5333	$AE	0.5501	$19	2.1331	$BE
-1.3334	$DE	-0.5333	$2A	0.5853	$1F	2.1333	$21
-1.3333	$A5	-0.4814	[$A3]	0.5998	$BE	2.1501	$13
-1.3333	$E3	-0.4714	$EF	0.6168	$19	2.1853	$1F
-1.3166	$19	-0.4614	$E6	0.6520	$1F	2.1953	[$A3]
-1.2814	$1F	-0.4533	$22	0.6664	$BE	2.2053	$EF
-1.2669	$BE	-0.0499	$12	0.6834	$19	2.2133	$22
-1.2499	$19	-0.0002	$BE	0.7186	$1F	2.2153	$E6
-1.2147	$1F	-0.0001	$DE	0.7331	$BE	2.8288	$25
-1.2002	$BE	0.0000	$A5	0.7501	$19	2.8633	$75
-1.1832	$19	0.0000	$E3	0.7853	$1F	7.0288	$2F
-1.1480	$1F	0.0168	$19	0.8000	$2A	7.0388	$26
-1.1336	$BE	0.0520	$1F	0.8000	$AE		
-1.1166	$19	0.0664	$BE	0.8520	[$A3]		
-1.0814	$1F	0.0834	$19	0.8620	$EF		
-1.0669	$BE	0.1186	$1F	0.8720	$E6		
-1.0499	$19	0.1331	$BE	0.8800	$22		
-1.0433	$AD	0.1501	$19	1.4955	$25		
-1.0147	$1F	0.1622	$25	1.5300	[$74]		
-1.0002	$BE	0.1853	$1F	1.5333	$30		
-0.9832	$19	0.1967	[$74]	1.5355	$2F		
-0.9480	$1F	0.1998	$BE	1.5455	$26		
-0.9336	$BE	0.2022	$2F	1.7501	$12		
-0.9166	$19	0.2122	$26	1.7998	$BE		
-0.8814	$1F	0.2168	$19	1.7999	$DE		
-0.8669	$BE	0.2520	$1F	1.8000	$E2		
-0.8499	$19	0.2664	$BE	1.8168	$13		
-0.8147	$1F	0.2834	$19	1.8520	$1F		
-0.8002	$BE	0.2900	$AD	1.8664	$BE		
-0.7832	$19	0.3186	$1F	1.8834	$13		
-0.7480	$1F	0.3331	$BE	1.9186	$1F		
-0.7336	$BE	0.3501	$19	1.9331	$BE		
-0.7166	$19	0.3853	$1F	1.9501	$13		
-0.6814	$1F	0.3998	$BE	1.9853	$1F		
-0.6669	$BE	0.4168	$19	1.9998	$BE		
-0.6499	$19	0.4520	$1F	2.0168	$13		
-0.6147	$1F	0.4664	$BE	2.0520	$1F		
-0.6002	$BE	0.4834	$19	2.0664	$BE		
-0.5832	$19	0.5186	$1F	2.0834	$13		

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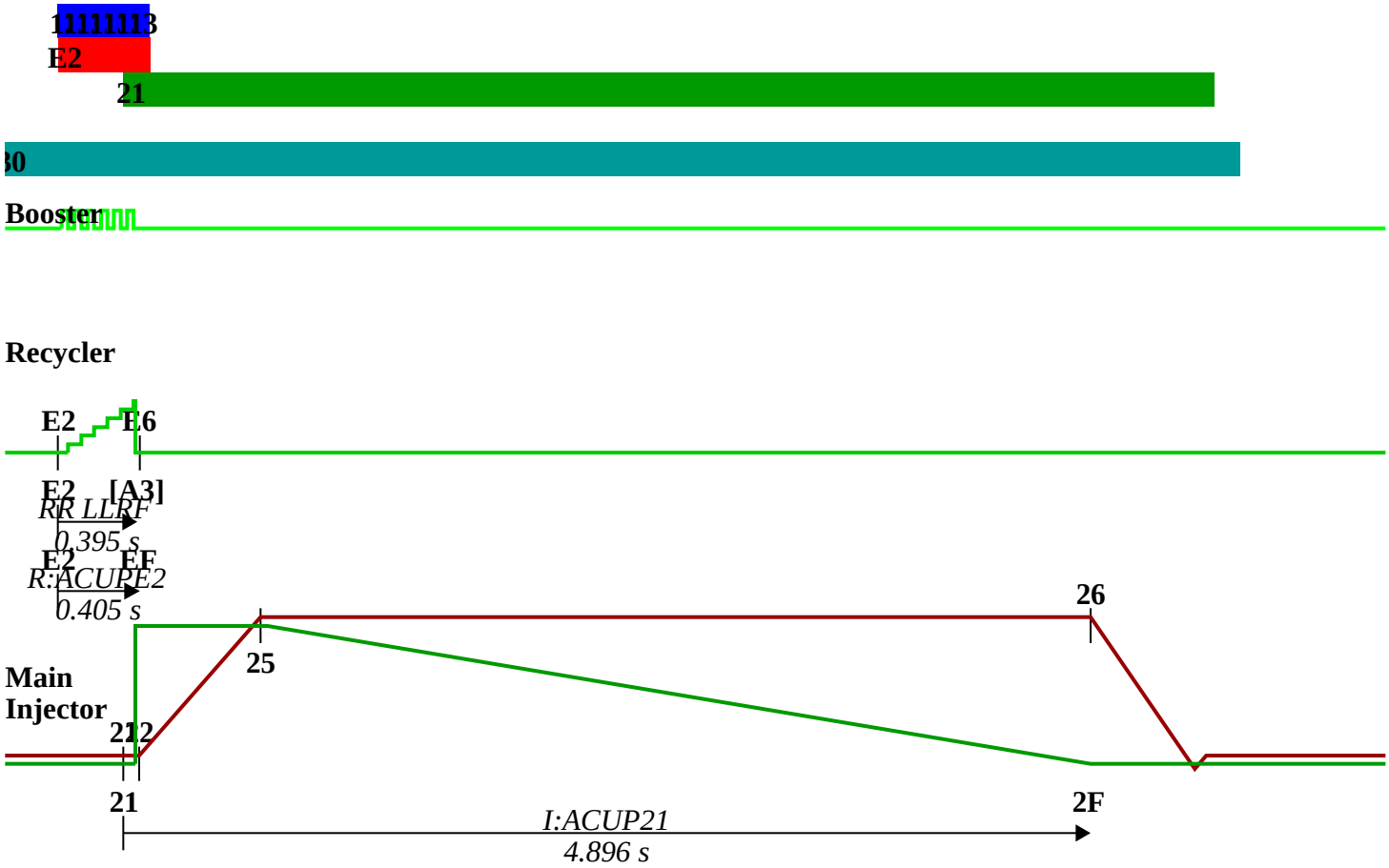
SY120



NOvA/ANU Event list

-0.6000 $30
-0.3832 $12
-0.3336 $BE
-0.3334 $DE
-0.3333 $E2
-0.3166 $13
-0.2814 $1F
-0.2669 $BE
-0.2499 $13
-0.2147 $1F
-0.2002 $BE
-0.1832 $13
-0.1480 $1F
-0.1336 $BE
-0.1166 $13
-0.0814 $1F
-0.0669 $BE
-0.0499 $13
-0.0147 $1F
-0.0002 $BE
0.0000 $21
0.0168 $13
0.0520 $1F
0.0620 [$A3]
0.0720 $EF
0.0800 $22
0.0820 $E6
0.6955 $25
0.7300 $75
4.8955 $2F
4.9055 $26

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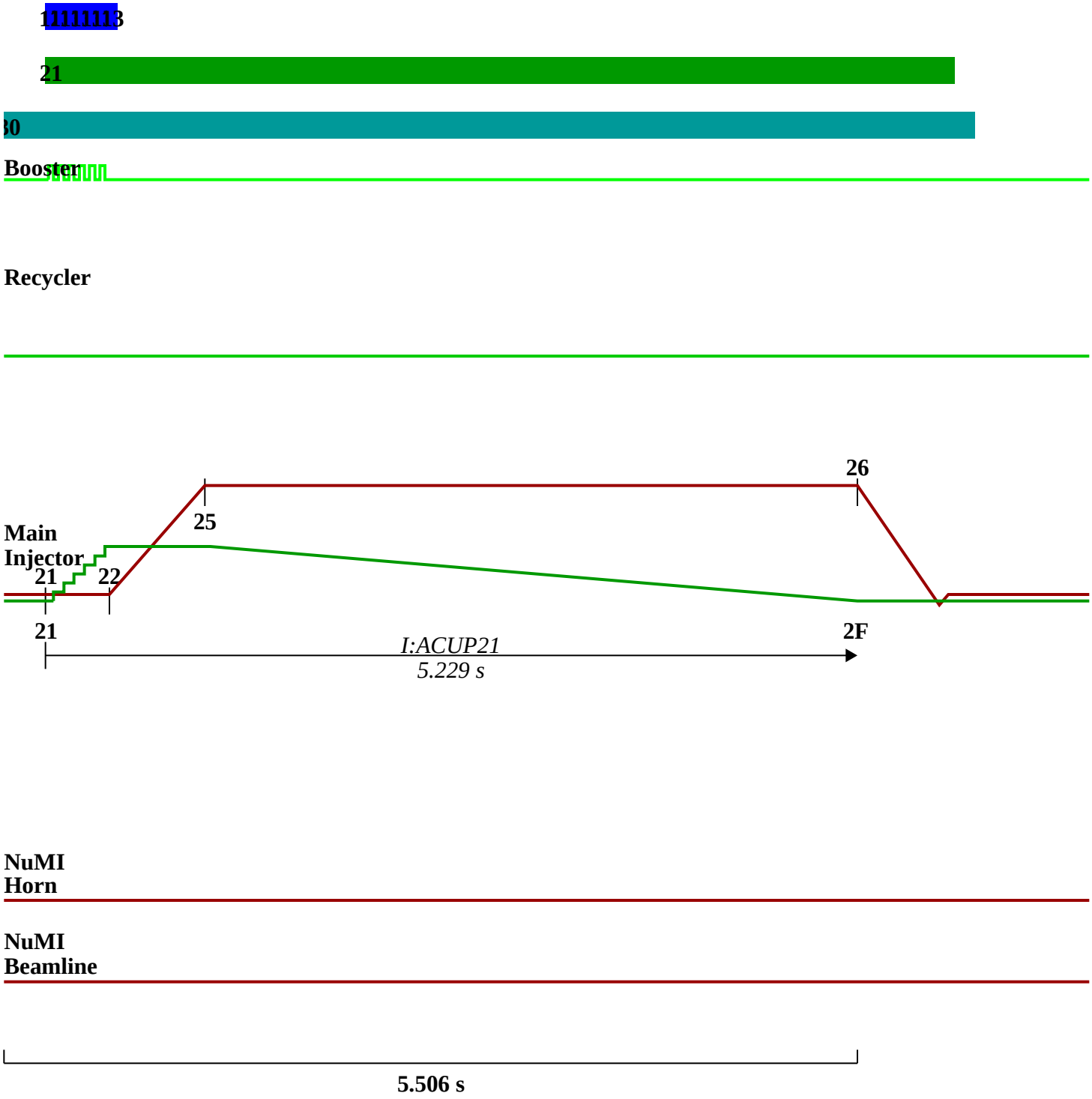
MI-oly SY120



NOvA/ANU Event list

-0.6000 $30
-0.3832 $12
-0.3336 $BF
-0.3333 $21
-0.3166 $13
-0.2814 $1F
-0.2669 $BF
-0.2499 $13
-0.2147 $1F
-0.2002 $BF
-0.1832 $13
-0.1480 $1F
-0.1336 $BF
-0.1166 $13
-0.0814 $1F
-0.0669 $BF
-0.0499 $13
-0.0147 $1F
-0.0002 $BF
0.0168 $13
0.0520 $1F
0.0800 $22
0.6955 $25
0.7300 $75
4.8955 $2F
4.9055 $26

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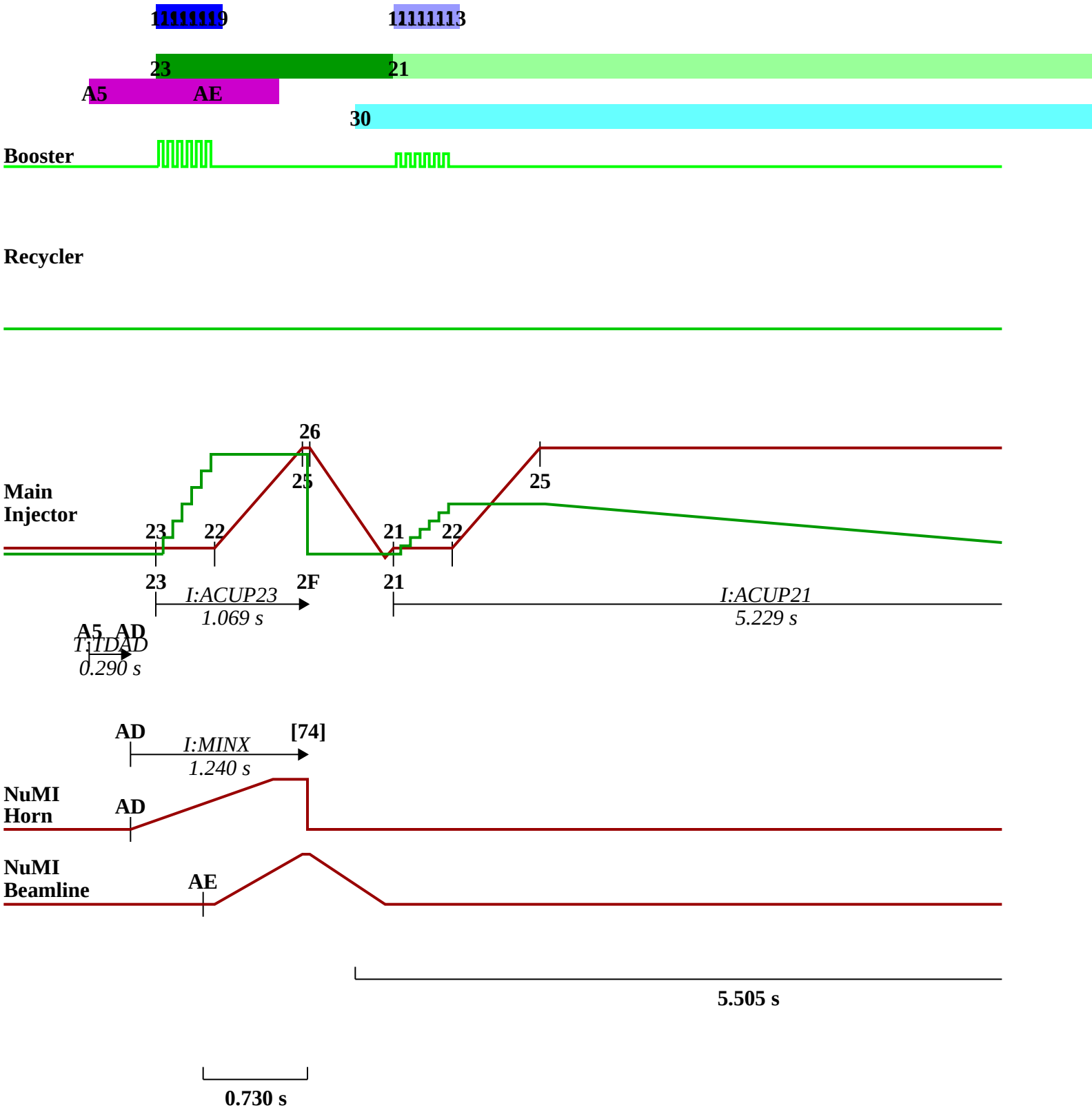
MI-only NuMI and SY120



NOvA/ANU Event list

0.0000	*$A5*
0.2900	*$AD*
0.4168	*$12*
0.4664	*$BF*
0.4667	*$23*
0.4834	*$19*
0.5186	*$1F*
0.5331	*$BF*
0.5501	*$19*
0.5853	*$1F*
0.5998	*$BF*
0.6168	*$19*
0.6520	*$1F*
0.6664	*$BF*
0.6834	*$19*
0.7186	*$1F*
0.7331	*$BF*
0.7501	*$19*
0.7853	*$1F*
0.7998	*$BF*
0.8000	*$AE*
0.8168	*$19*
0.8520	*$1F*
0.8800	*$22*
1.4955	*$25*
1.5300	*[$74]*
1.5355	*$2F*
1.5455	*$26*
1.8667	*$30*
2.0834	*$12*
2.1331	*$BF*
2.1333	*$21*
2.1501	*$13*
2.1853	*$1F*
2.1998	*$BF*
2.2168	*$13*
2.2520	*$1F*
2.2664	*$BF*
2.2834	*$13*
2.3186	*$1F*
2.3331	*$BF*
2.3501	*$13*
2.3853	*$1F*
2.3998	*$BF*
2.4168	*$13*
2.4520	*$1F*
2.4664	*$BF*
2.4834	*$13*
2.5186	*$1F*
2.5467	*$22*
3.1622	*$25*
3.1967	*$75*
7.3622	*$2F*
7.3722	*$26*

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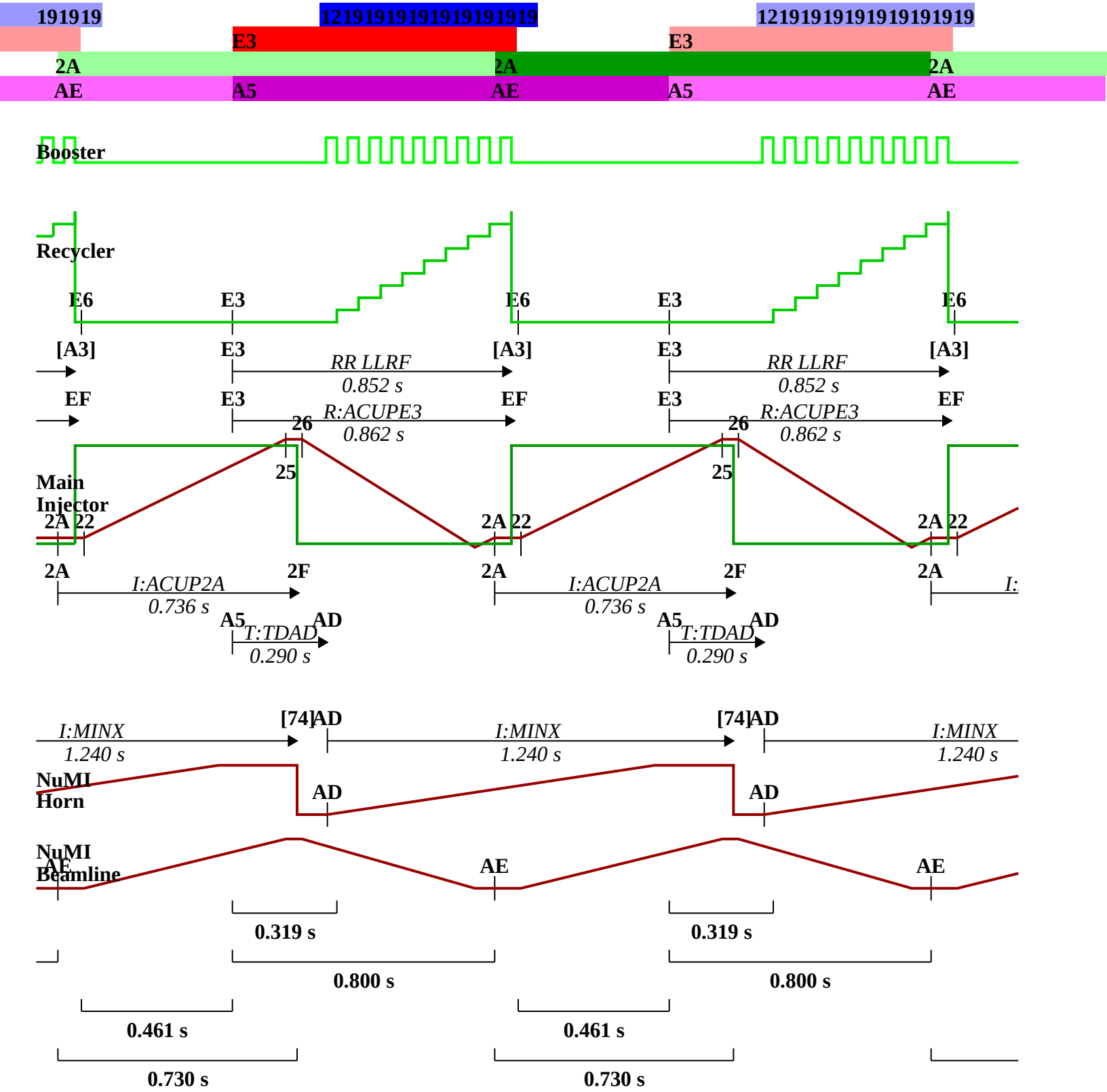
NoVA 500-550 kW ish



NOvA/ANU Event list

-1.3334	$DE	0.0000	$A5	1.3332	$DE	2.2053	$E6
-1.3333	$A5	0.1622	$25	1.3333	$E3	2.2133	$22
-1.3333	$E3	0.1967	[$74]	1.3333	$A5	2.8288	$25
-1.1166	$12	0.2022	$2F	1.4955	$25	2.8633	[$74]
-1.0669	$BE	0.2122	$26	1.5300	[$74]	2.8688	$2F
-1.0499	$19	0.2168	$12	1.5355	$2F	2.8788	$26
-1.0433	$AD	0.2664	$BE	1.5455	$26		
-1.0147	$1F	0.2834	$19	1.5501	$12		
-1.0002	$BE	0.2900	$AD	1.5998	$BE		
-0.9832	$19	0.3186	$1F	1.6168	$19		
-0.9480	$1F	0.3331	$BE	1.6233	$AD		
-0.9336	$BE	0.3501	$19	1.6520	$1F		
-0.9166	$19	0.3853	$1F	1.6664	$BE		
-0.8814	$1F	0.3998	$BE	1.6834	$19		
-0.8669	$BE	0.4168	$19	1.7186	$1F		
-0.8499	$19	0.4520	$1F	1.7331	$BE		
-0.8147	$1F	0.4664	$BE	1.7501	$19		
-0.8002	$BE	0.4834	$19	1.7853	$1F		
-0.7832	$19	0.5186	$1F	1.7998	$BE		
-0.7480	$1F	0.5331	$BE	1.8168	$19		
-0.7336	$BE	0.5501	$19	1.8520	$1F		
-0.7166	$19	0.5853	$1F	1.8664	$BE		
-0.6814	$1F	0.5998	$BE	1.8834	$19		
-0.6669	$BE	0.6168	$19	1.9186	$1F		
-0.6499	$19	0.6520	$1F	1.9331	$BE		
-0.6147	$1F	0.6664	$BE	1.9501	$19		
-0.6002	$BE	0.6834	$19	1.9853	$1F		
-0.5832	$19	0.7186	$1F	1.9998	$BE		
-0.5480	$1F	0.7331	$BE	2.0168	$19		
-0.5336	$BE	0.7501	$19	2.0520	$1F		
-0.5333	$AE	0.7853	$1F	2.0664	$BE		
-0.5333	$2A	0.7998	$BE	2.0834	$19		
-0.5166	$19	0.8000	$AE	2.1186	$1F		
-0.4814	$1F	0.8000	$2A	2.1331	$BE		
-0.4814	[$A3]	0.8168	$19	2.1333	$2A		
-0.4714	$EF	0.8520	$1F	2.1333	$AE		
-0.4614	$E6	0.8520	[$A3]	2.1501	$19		
-0.4533	$22	0.8620	$EF	2.1853	[$A3]		
-0.0001	$DE	0.8720	$E6	2.1853	$1F		
0.0000	$E3	0.8800	$22	2.1953	$EF		