

Report from H1

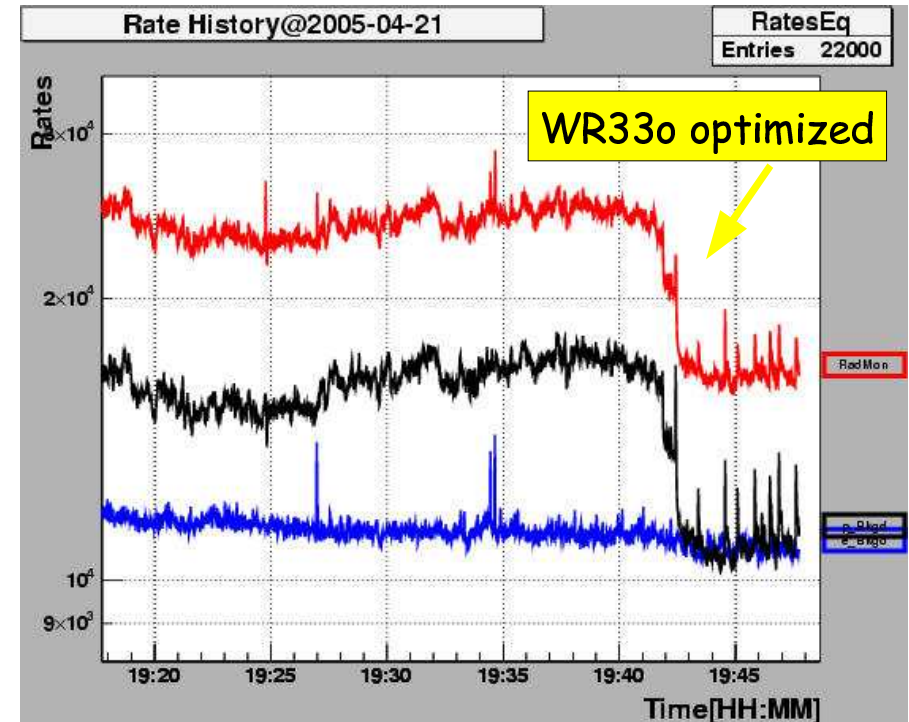
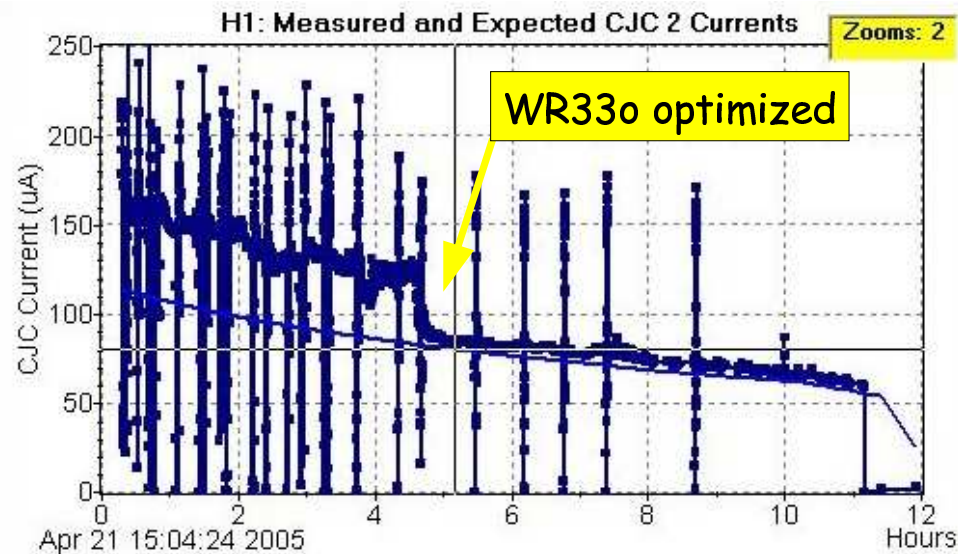


- ◆ 7 long and good fills since Wednesday (3 shorter due to beam losses):
 - Easy operation of tracker HV:
 - ▲ Smooth turn on
 - ▲ Only few trips
 - HV operation efficiency 70% and better (Fill on Saturday reached 86%)

Fill #	Start	Stop	Ip	Ie-	Lmax	spLmax	HERA	H1Run	H1Data	HV eff	H1 HV on
3787	20.4.05 1:26	20.4.05 14:10	95,73	32,29	35,58	1,88	843,1	816,8	733,8	72,4	531,3
3789	21.4.05 14:53	22.4.05 2:15	91,30	31,33	35,10	2,01	731,9	718,7	649,0	69,8	453,0
3791	22.4.05 11:31	22.4.05 22:03	89,96	36,01	36,43	1,85	738,2	723,8	647,3	73,1	473,2
3793	23.4.05 5:46	23.4.05 19:24	93,93	35,31	40,07	1,96	888,9	873,5	760,9	86,6	659,2
3794	23.4.05 23:30	24.4.05 10:24	97,87	38,11	38,11	1,82	708,9	704,2	630,4	78,2	492,8
3796	24.4.05 14:22	24.4.05 15:25	99,81	33,97	39,05	1,88	91,5	84,7	68,7	33,6	23,1
3797	24.4.05 18:19	24.4.05 20:05	101,90	36,35	41,14	1,75	182,8	179,0	155,4	71,3	110,8
3799	25.4.05 1:52	25.4.05 10:08	97,06	37,49	41,96	1,88	711,8	695,0	620,7	64,3	398,8
3800	25.4.05	25.4.05	83,76	38,39	37,00	1,86	565,1	560,5	497,7	84,7	421,7
3801	26.04.05	26.04.05	97,05	34,35	38,41	1,84	247,7	224,0	192,6	20,8	40,0
							5709,9	5580,2	4956,5	72,7	3603,9



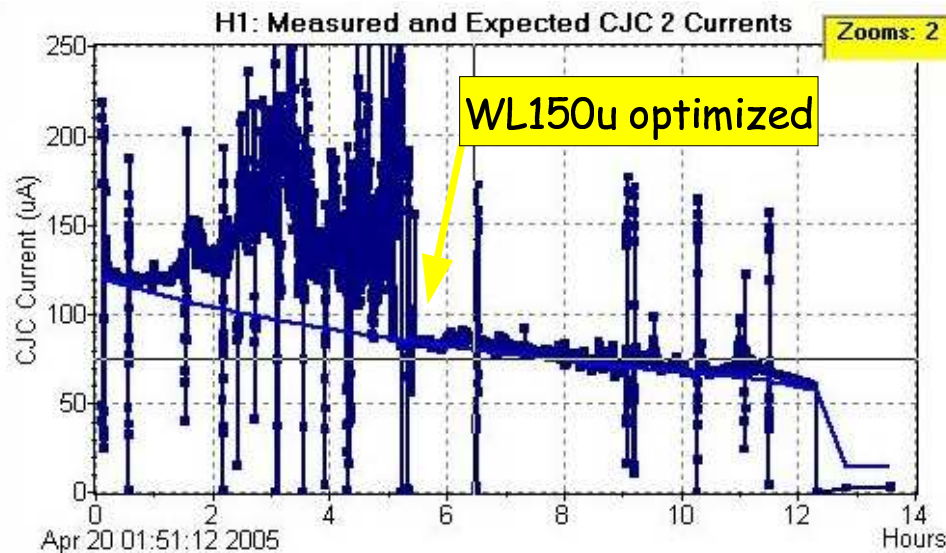
Improving Collimator Settings



Clear improvement:

- Less chamber currents
- Much less trips
- Reduction of background rate

Improving Collimator Settings 2



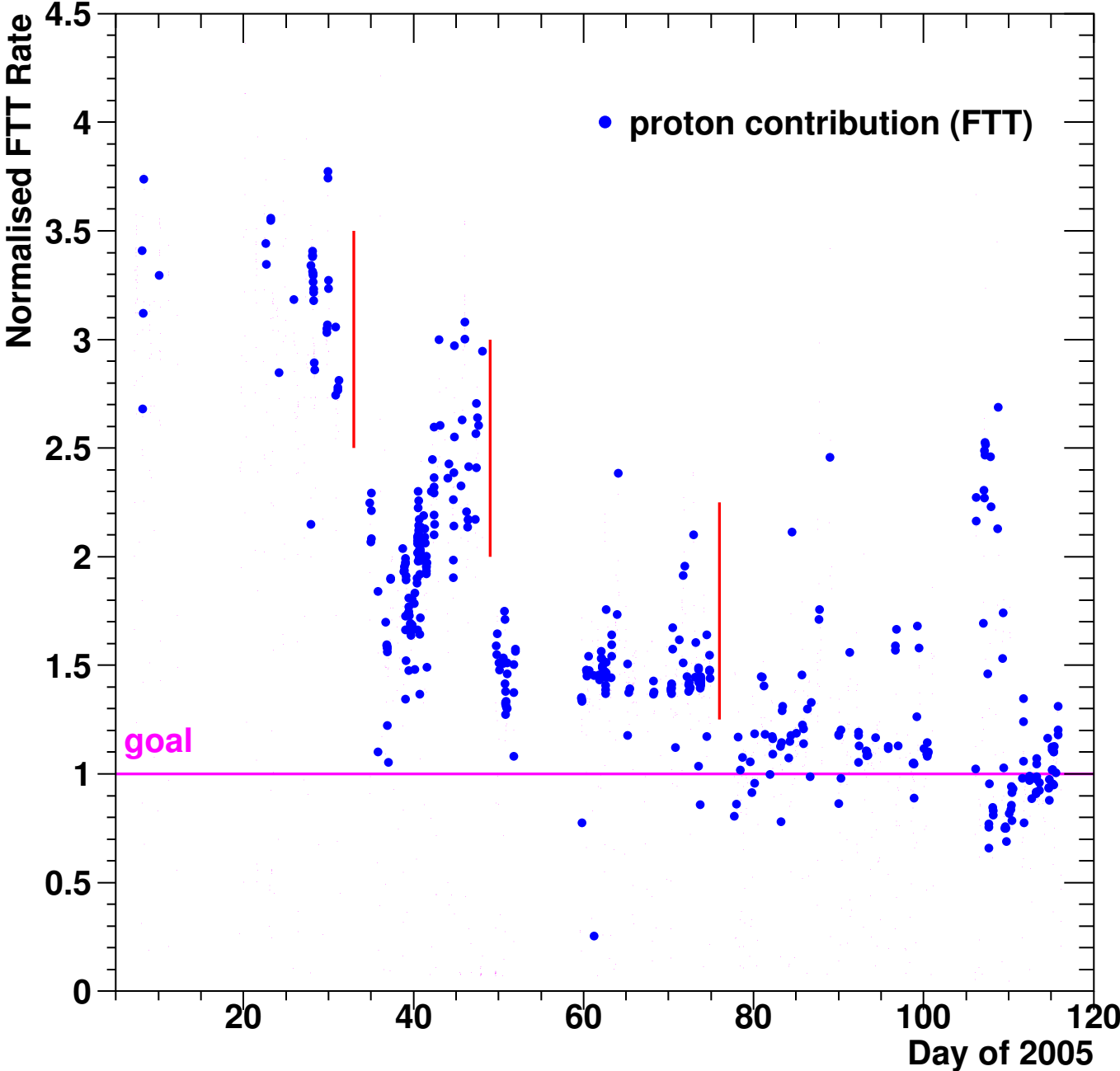
Again improvement:

- Chamber current reaches expectations
- Very few trips

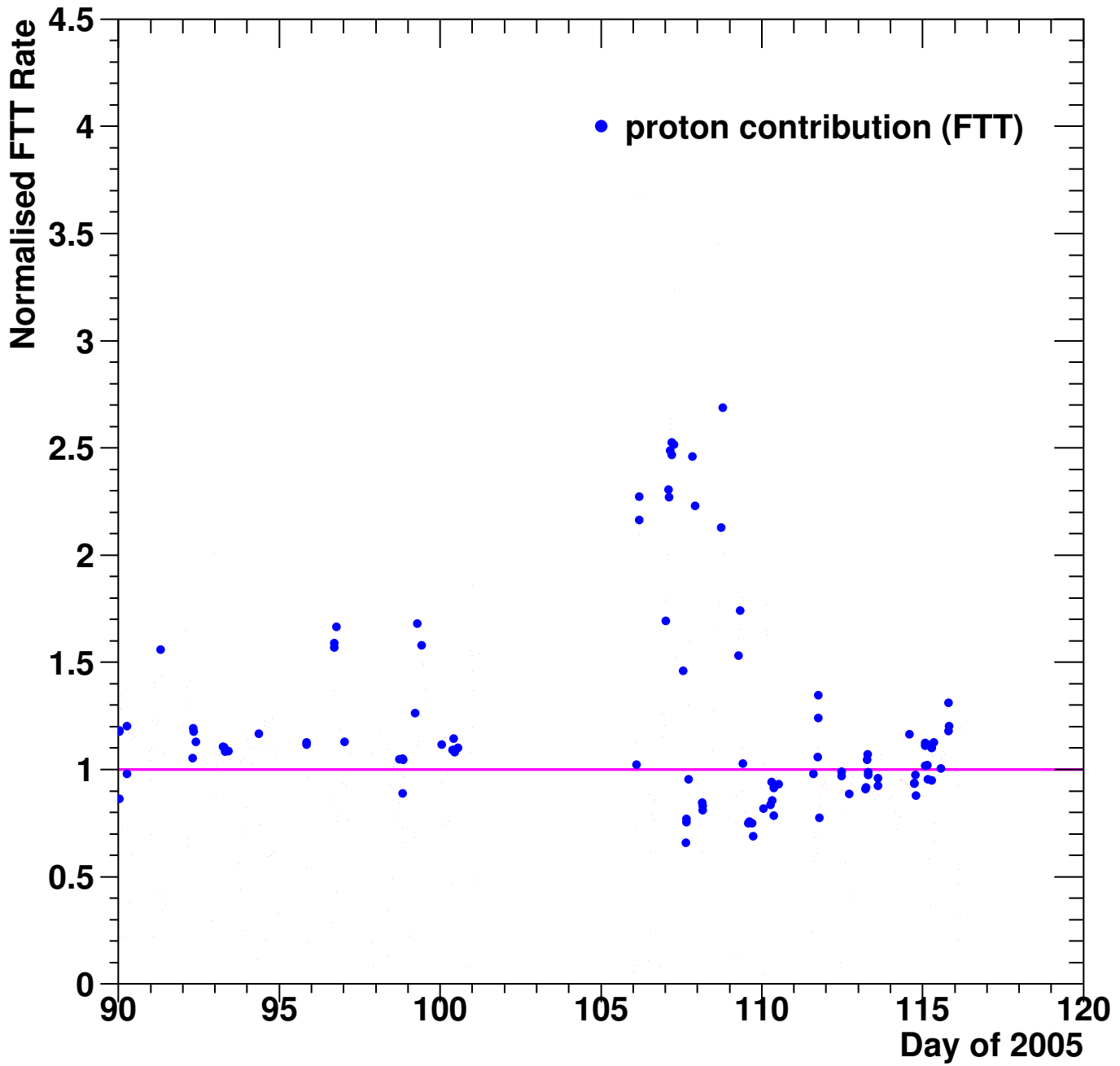
Exercise was worth the effort:

- H1 can switch on immediately
- Chamber currents ~ 1.1 to 1.2 over expectation
→ Allowing stable operation

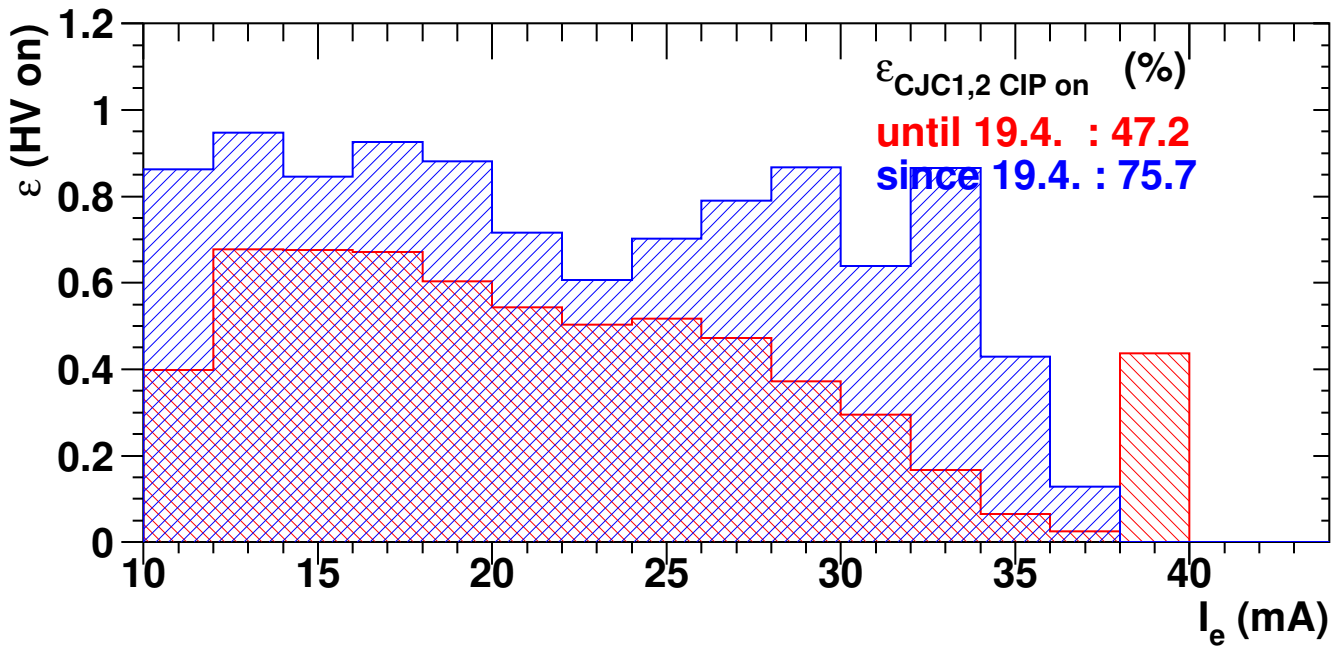
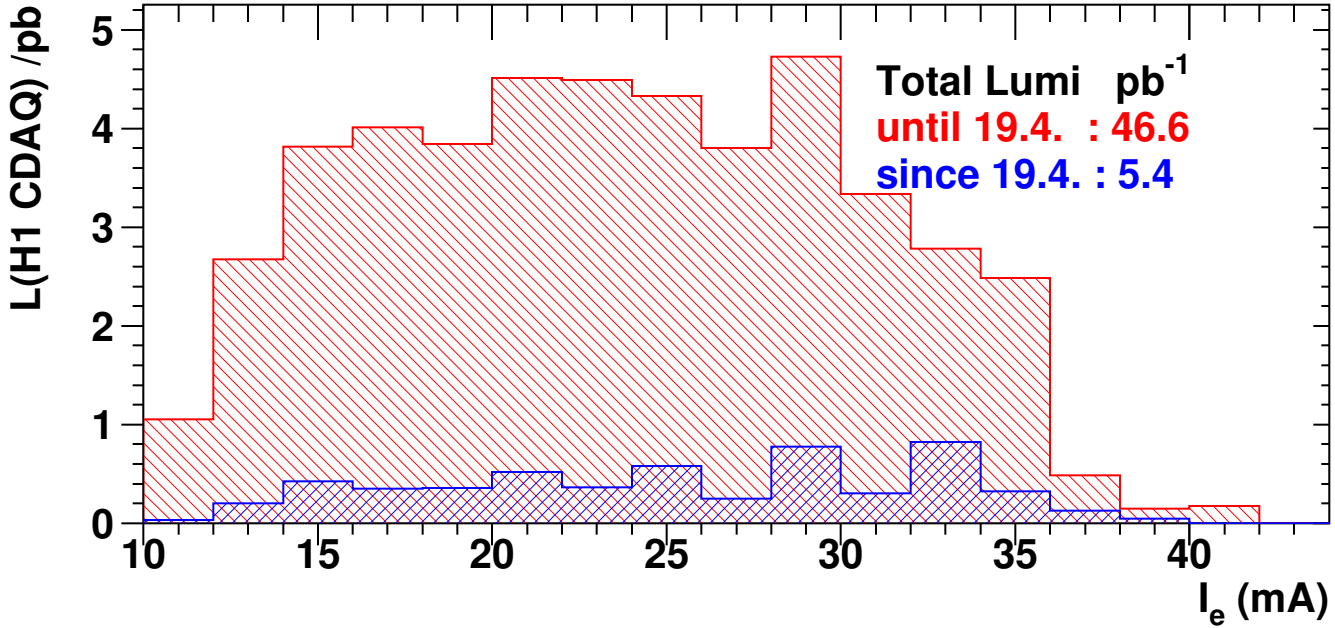
Time Dependence of Proton Background in 2005



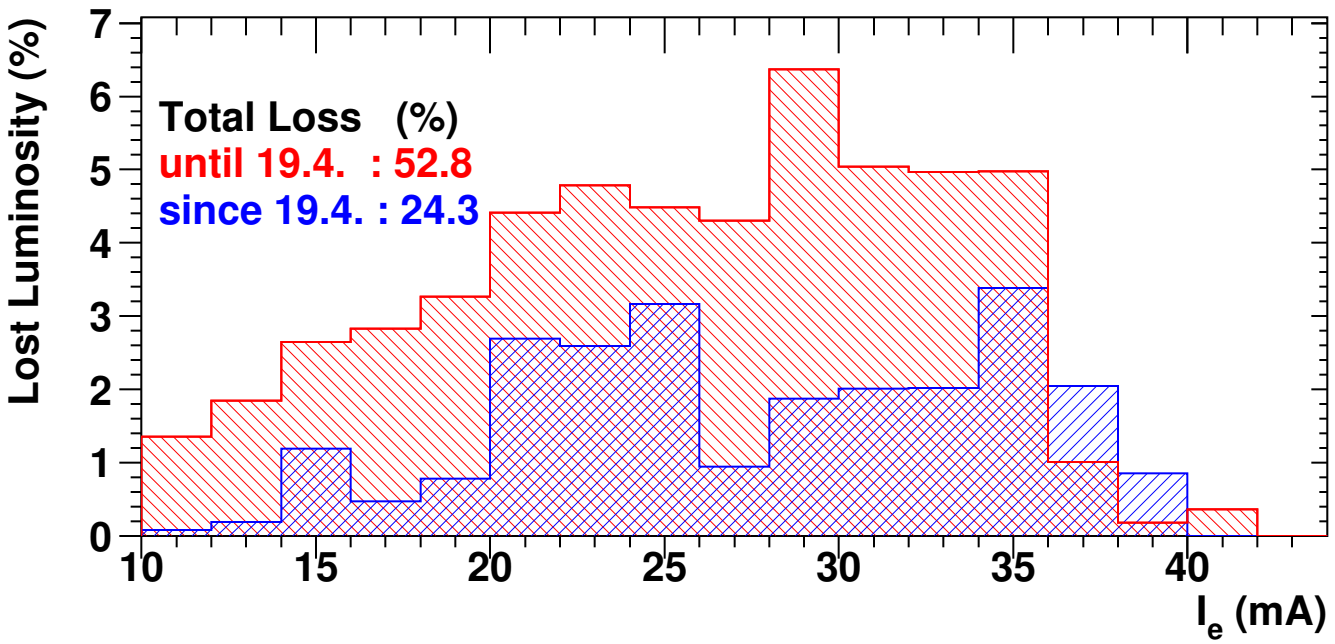
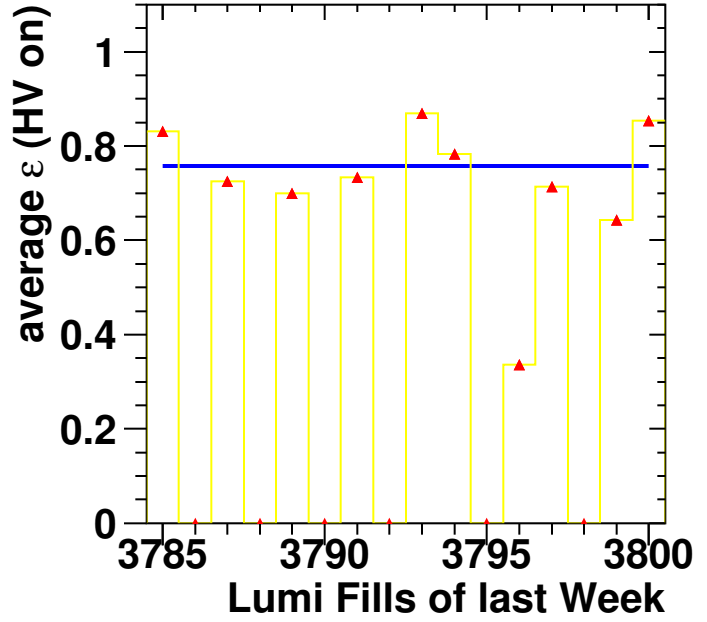
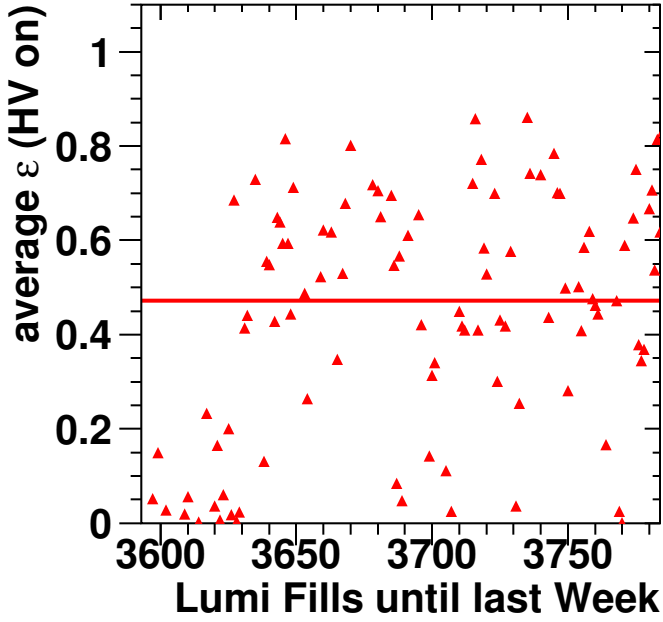
Time Dependence of Proton Background in 2005



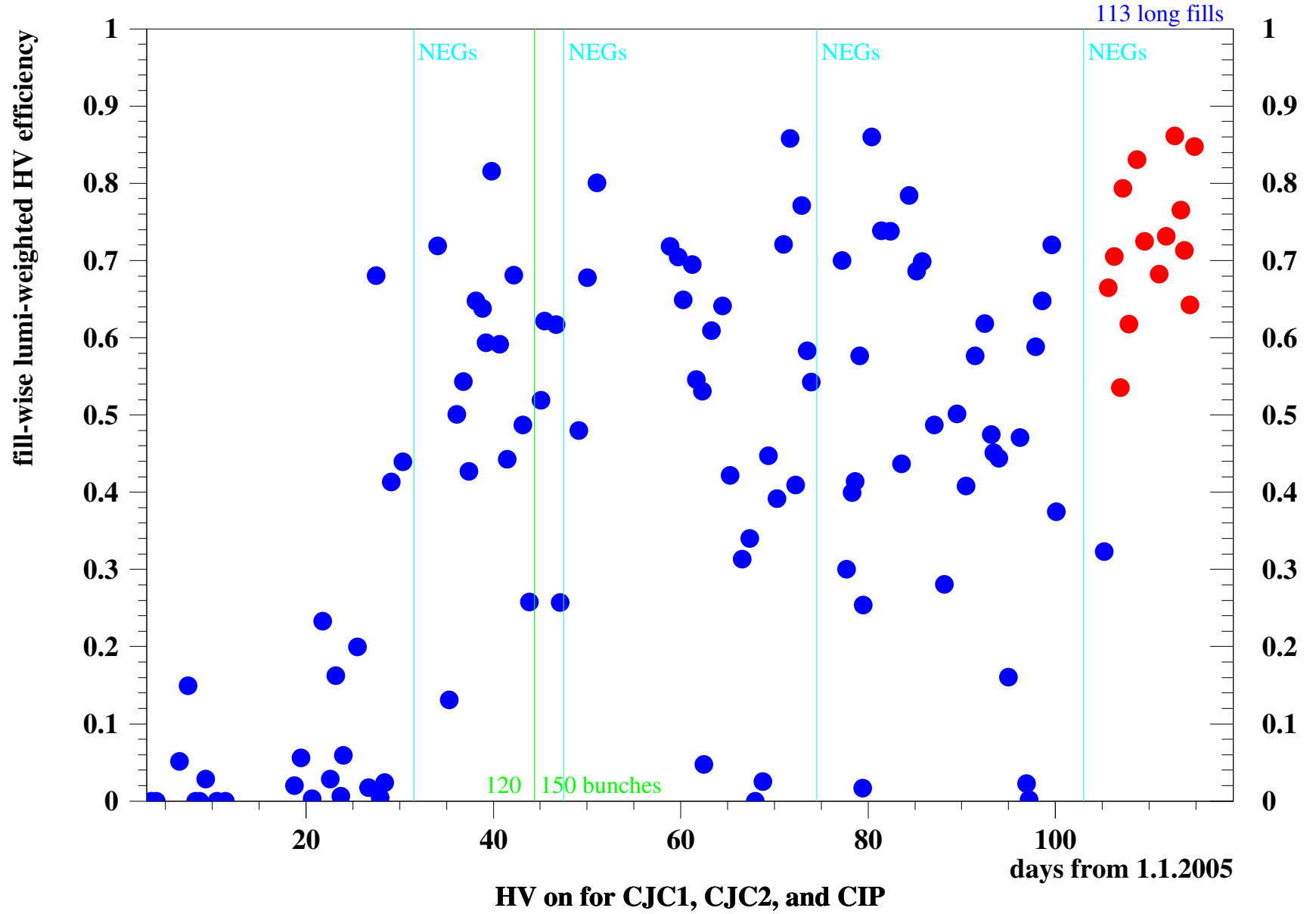
HV efficiency in 2005



HV efficiency in 2005



H1 HV efficiency for long lumi fills



Luminosity in 2005

