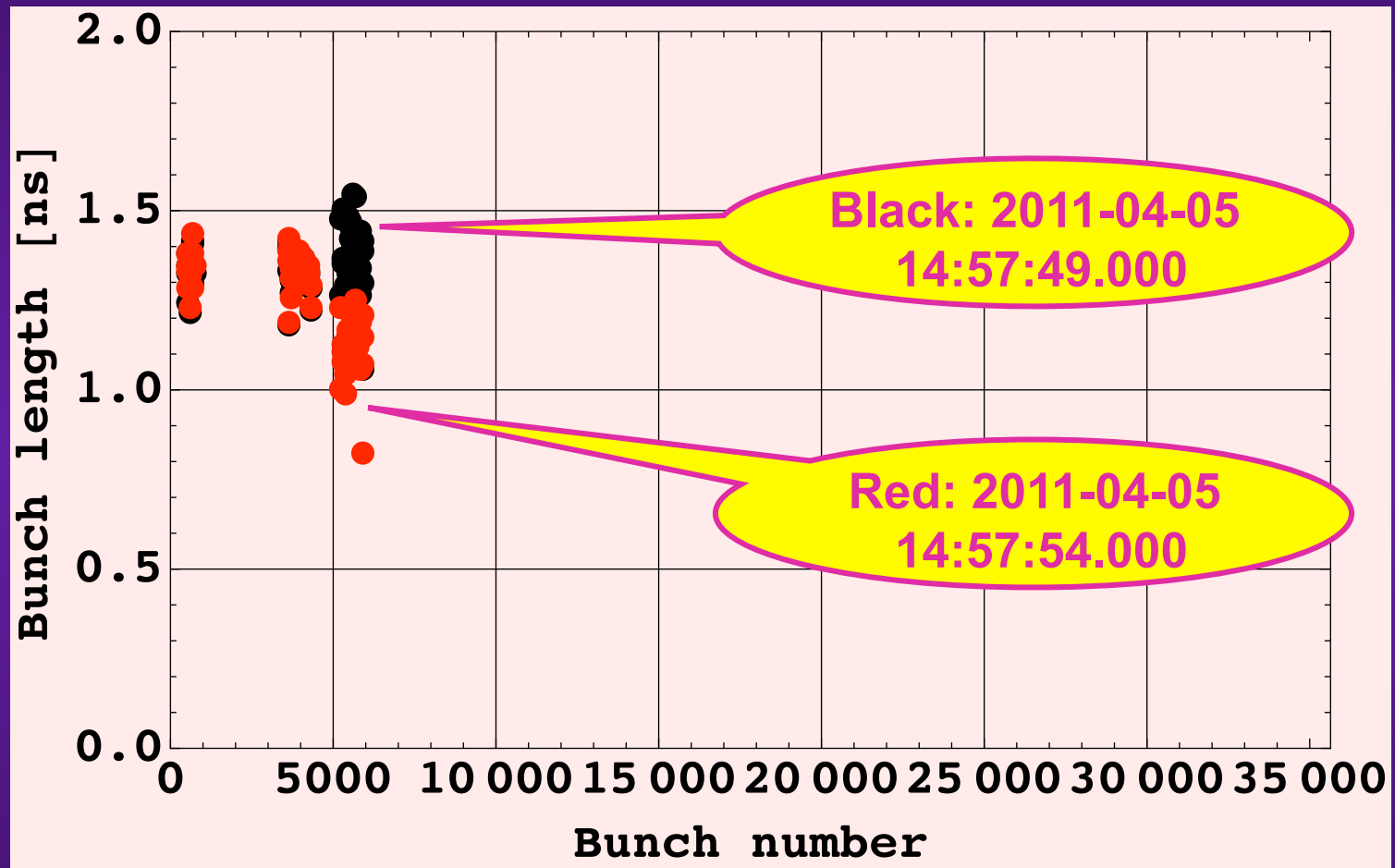


BUNCH LENGTH EVOLUTION DURING THE 2011 LHC SCRUBBING RUN

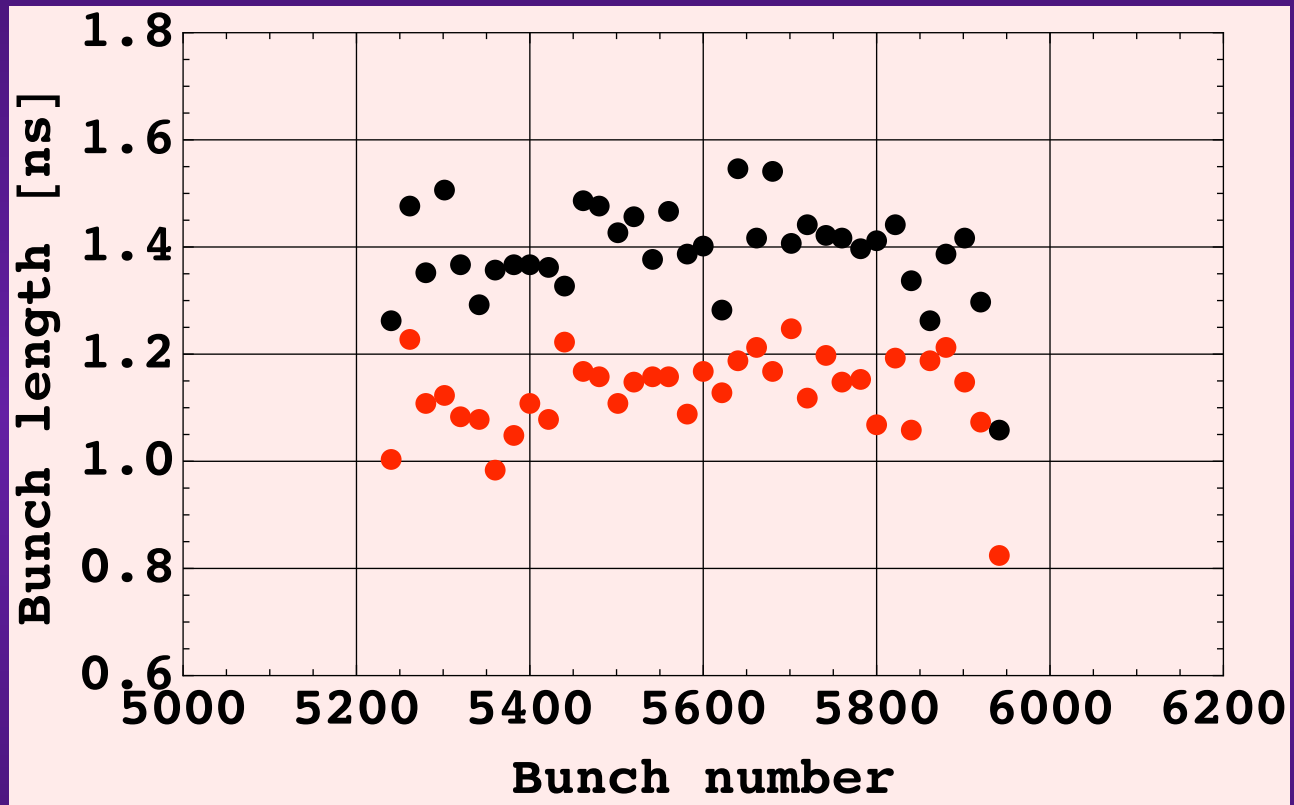
Elias Métral

- ◆ **05-04-11 => 50 ns beam: 12b + 36b + 36b (there is also a pilot bunch in bucket 1)**
 - A “shortening” of the (whole) second batch of 36b could be observed => To be followed up. Reminder from GiuliaP: Only 8 Gsamples/s => Only ~ 10 points over the bunch length which is ~ 1.2 ns
- ◆ **06-04-11 => 50 ns beam: 12b + 72b + 72b (there is also a pilot bunch in bucket 1)**
 - A “shortening” of the (whole) second batch of 72b could also be observe. Note that there were also beam losses
- ◆ **Etc.**

05-04-2011 (1/3)



05-04-2011 (3/3)



06-04-2011 (1/12)

LHC Page1

Fill: 1675

E: 450 GeV

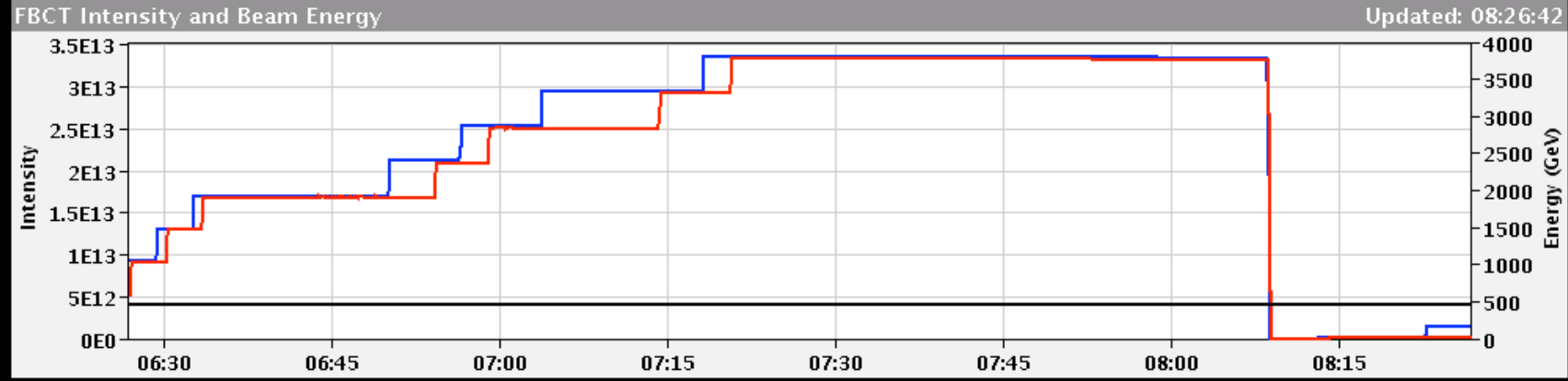
06-04-2011 08:26:42

BEAM SETUP: INJECTION PHYSICS BEAM

BCT TI2: 0.00e+00
 I(B1): 1.44e+12
 BCT TI8: 0.00e+00
 I(B2): 9.50e+09

TED TI2 position: BEAM
 TDI P2 gaps/mm
 up: 11.31 down: 12.91

TED TI8 position: BEAM
 TDI P8 gaps/mm
 up: 9.03 down: 9.68



Comments 06-04-2011 08:21:23 :

injection studies ongoing

BIS status and SMP flags

B1 B2

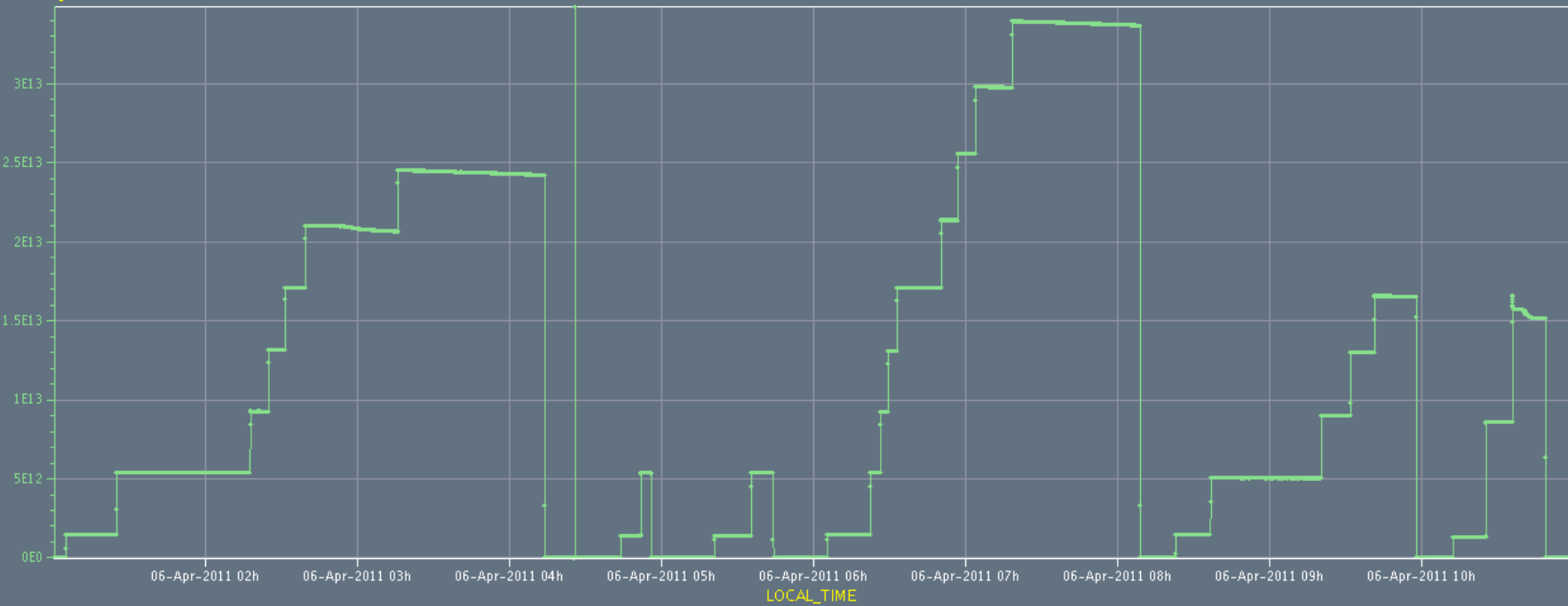
Link Status of Beam Permits	false	false
Global Beam Permit	true	true
Setup Beam	false	false
Beam Presence	true	true
Moveable Devices Allowed In	false	false
Stable Beams	false	false

06-04-2011 (2/12)

Timeseries Chart between 2011-04-06 01:00:00.000 and 2011-04-06 10:58:00.486 (LOCAL_TIME)

LHC.BCTDC.A6R4.B1.BEAM_INTENSITY

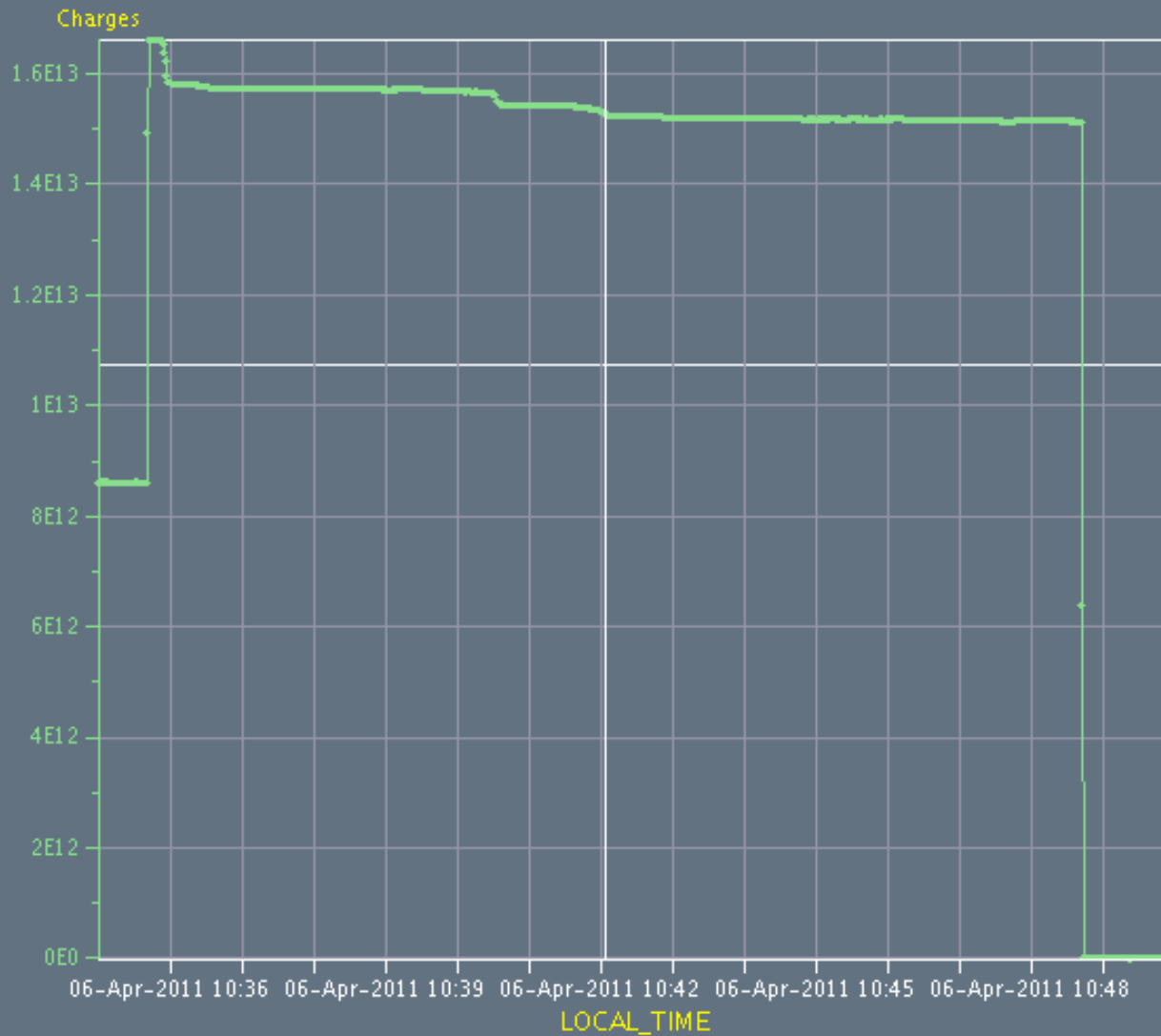
Charges



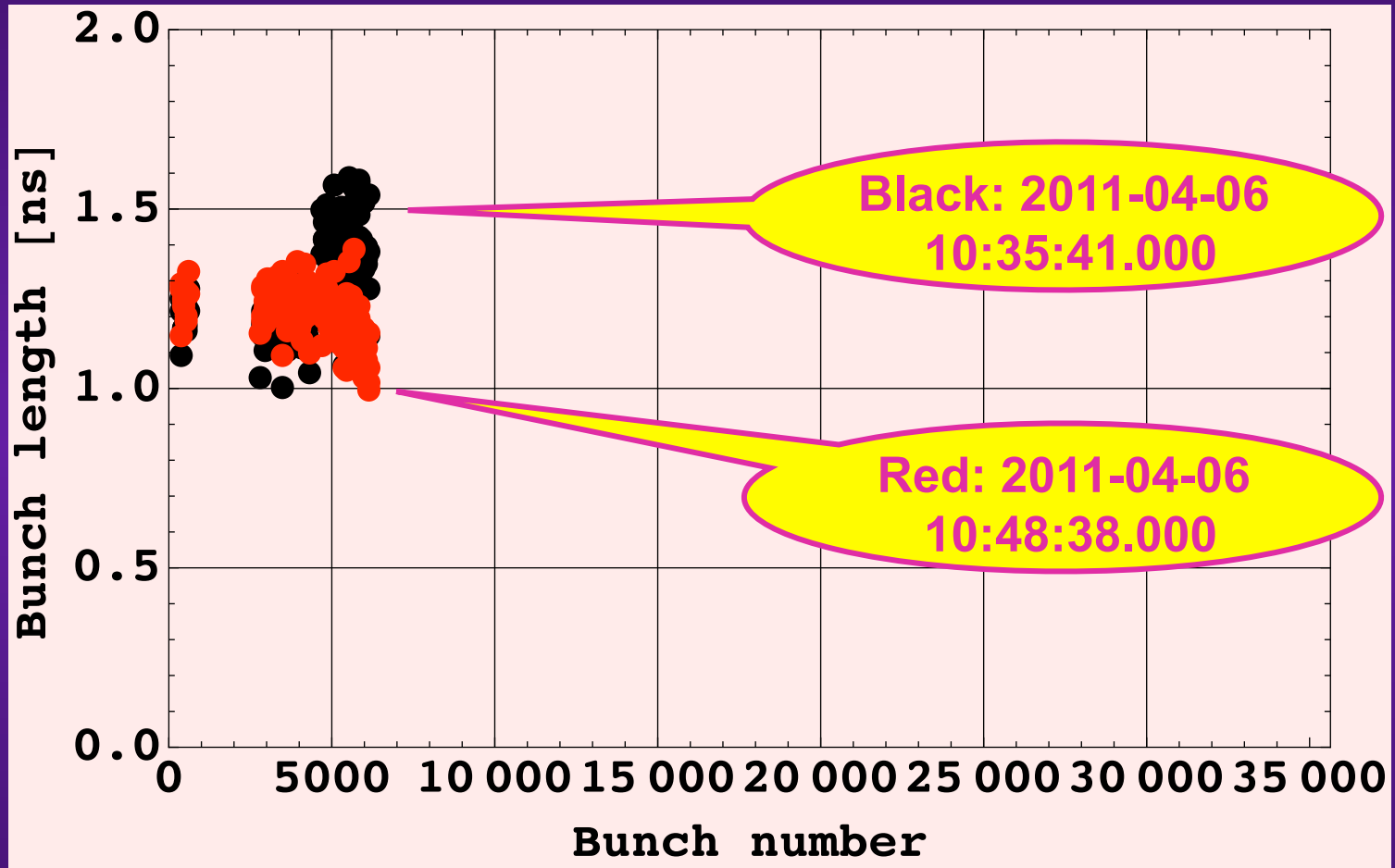
06-04-2011 (3/12)

Timeseries Chart between 2011-04-06 10:35:00.000 and 2011-04-06 10:50:00.000 (LOCAL_T

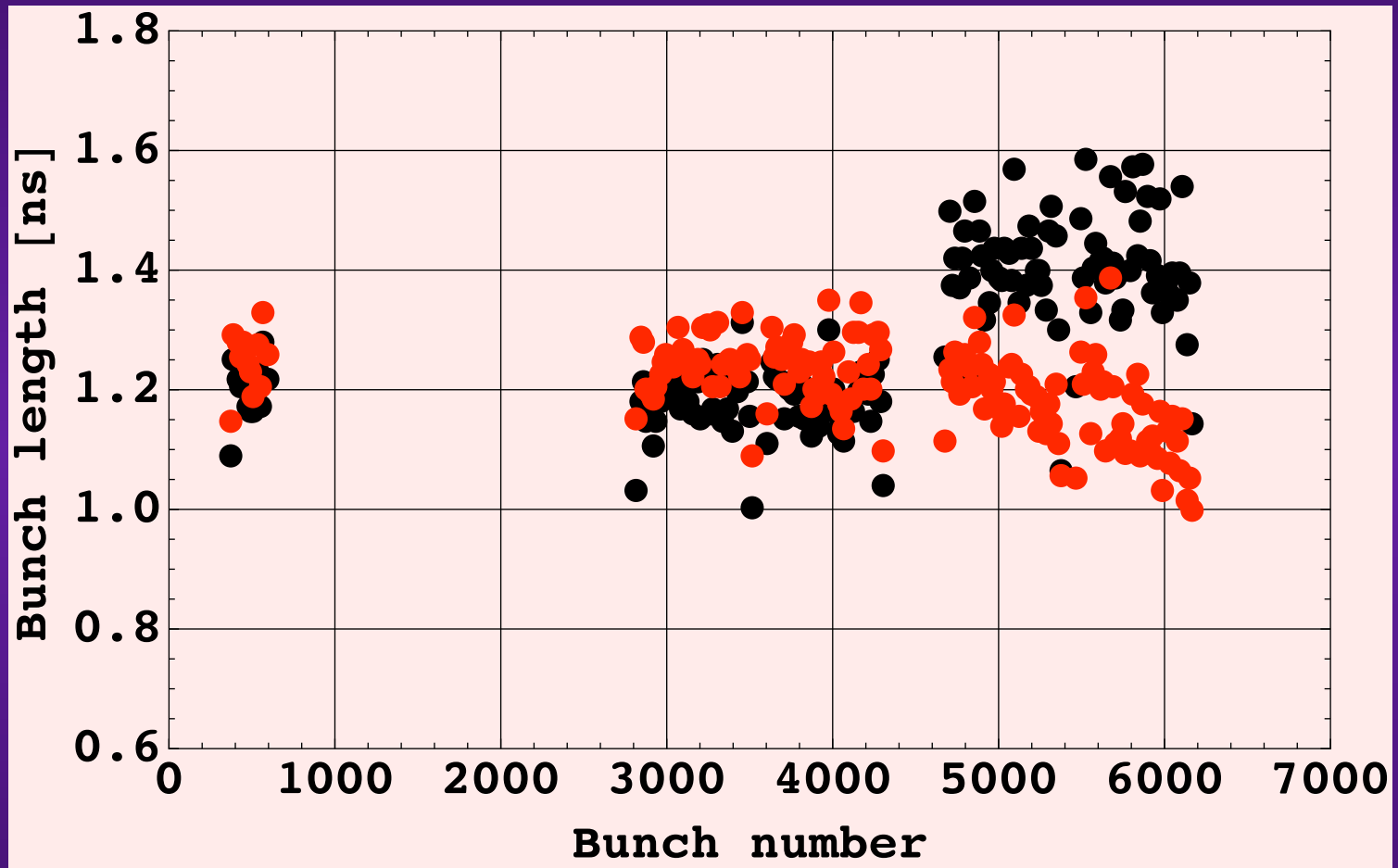
→ LHC.BCTDC.A6R4.B1:BEAM_INTENSITY



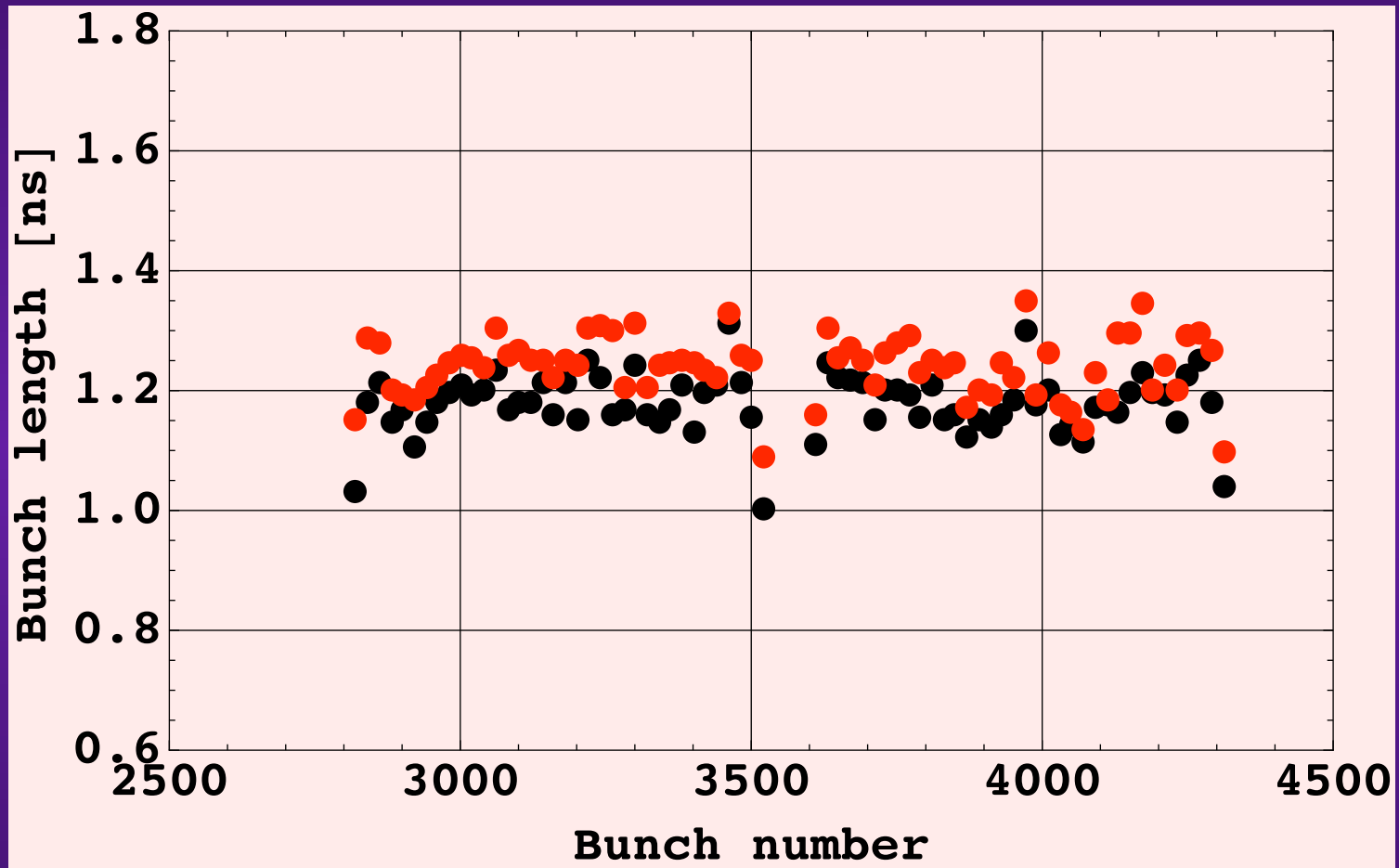
06-04-2011 (4/12)



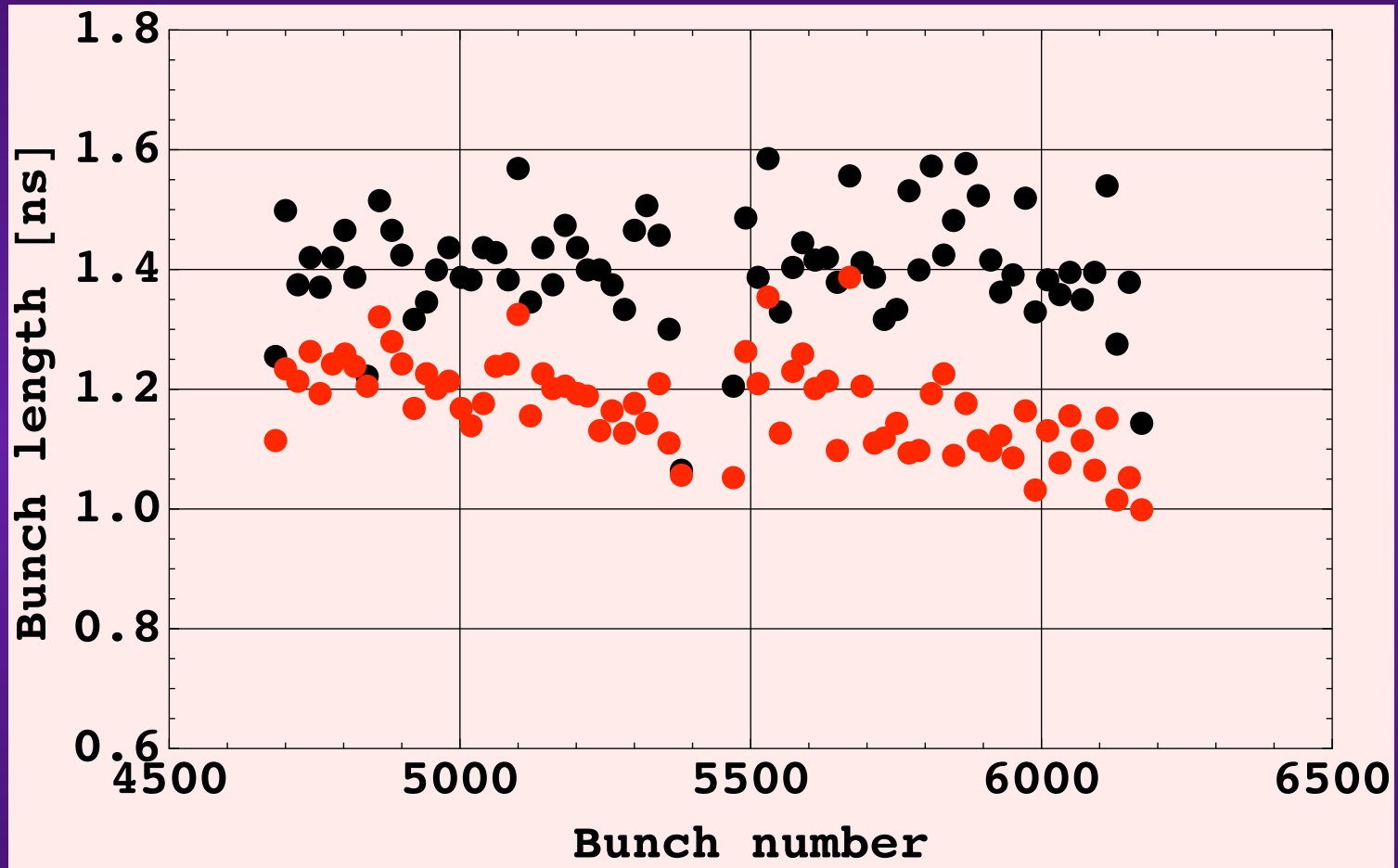
06-04-2011 (5/12)



06-04-2011 (6/12)

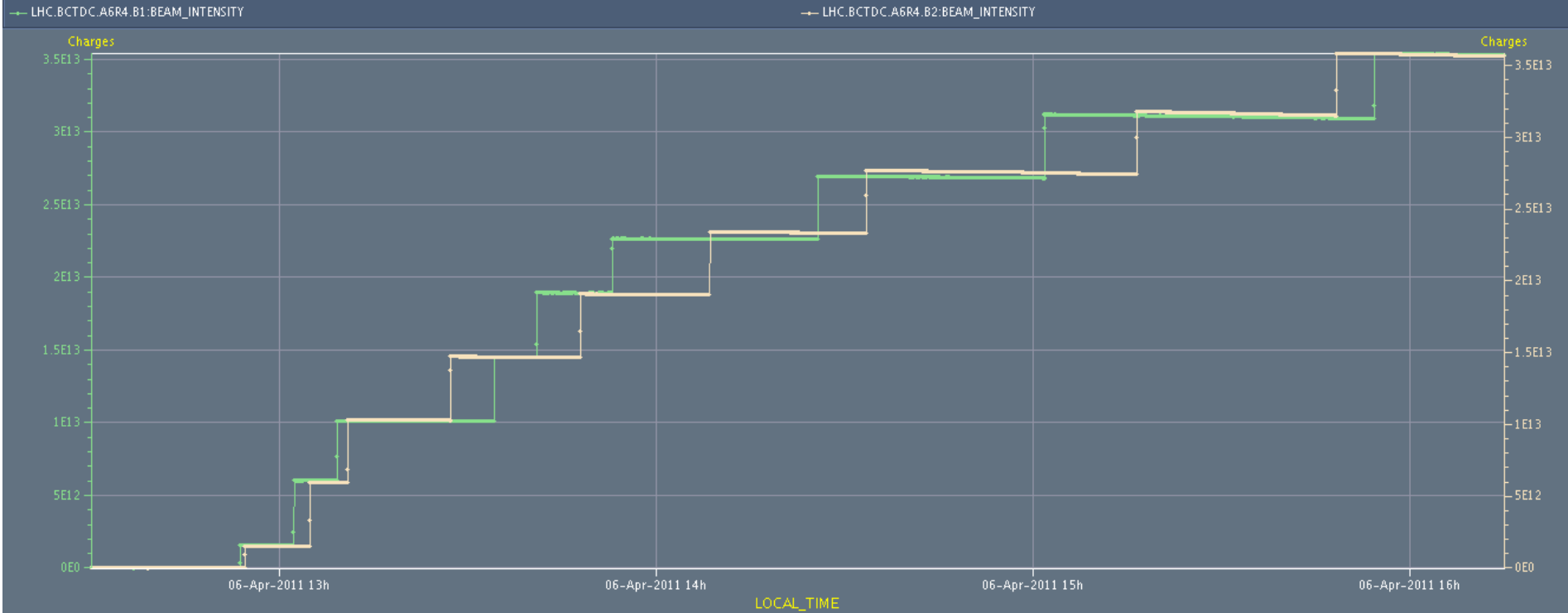


06-04-2011 (7/12)



06-04-2011 (8/12)

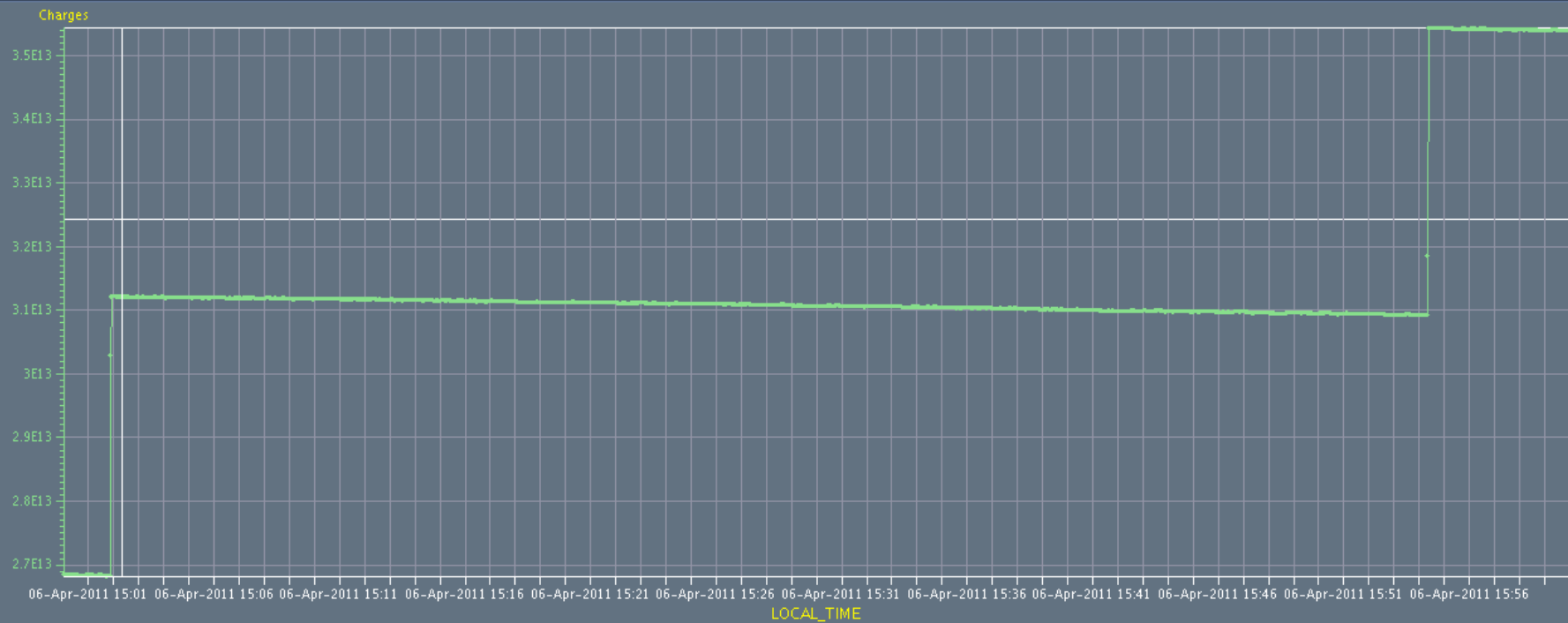
Timeseries Chart between 2011-04-06 12:30:00.000 and 2011-04-06 16:15:00.000 (LOCAL_TIME)



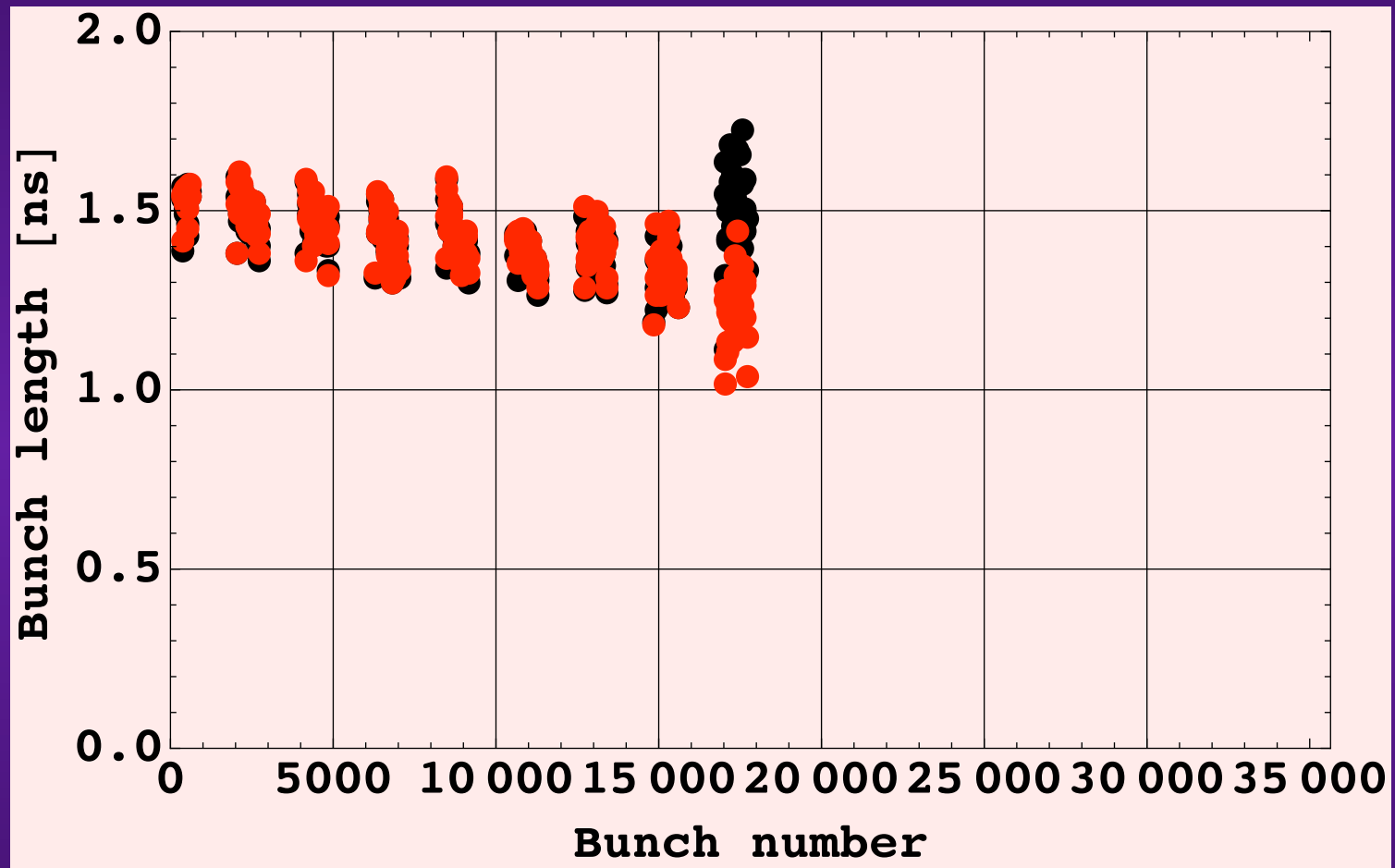
06-04-2011 (9/12)

Timeseries Chart between 2011-04-06 15:00:00.000 and 2011-04-06 16:00:00.000 (LOCAL_TIME)

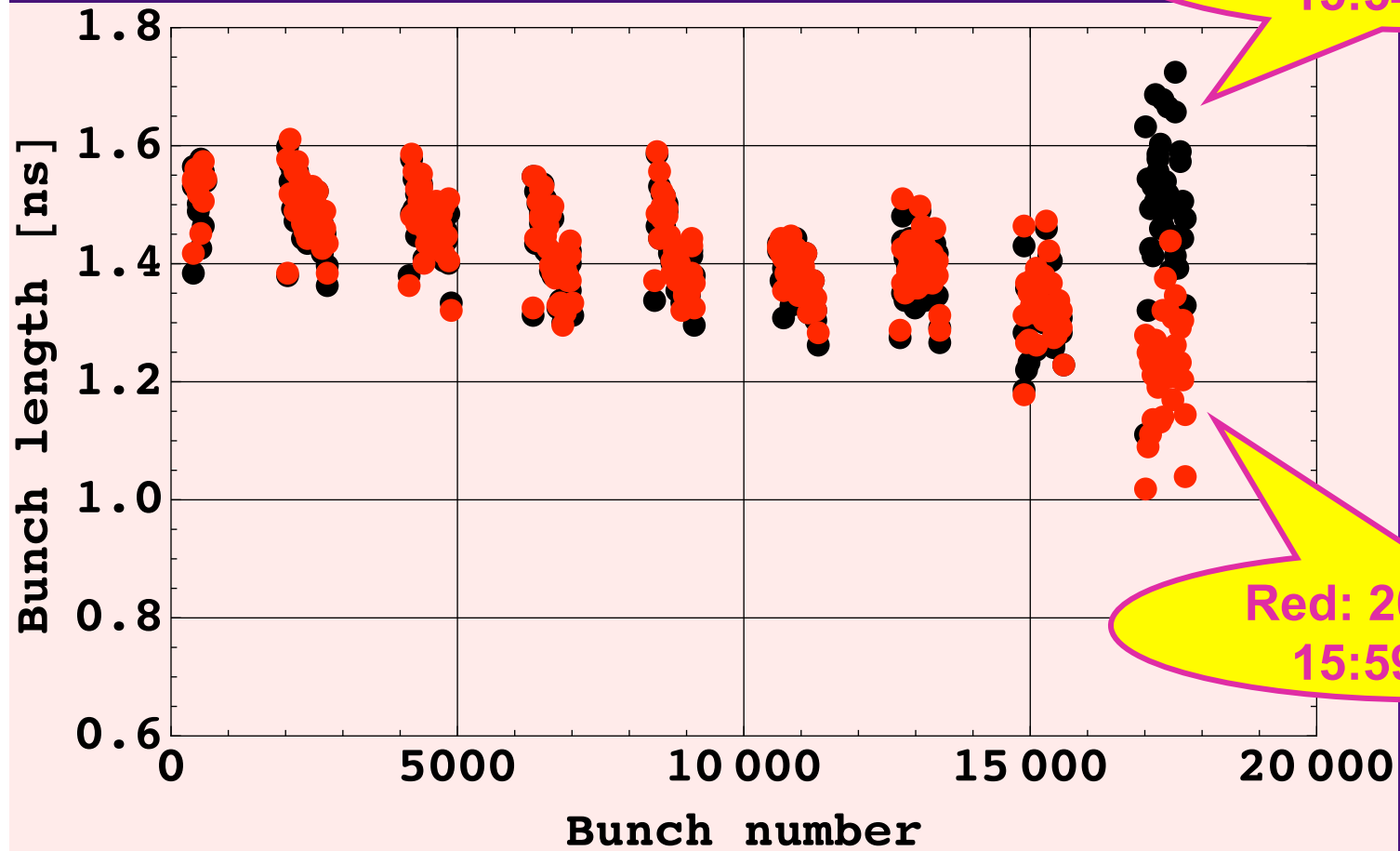
LHC.BCTDC.A6R4.B1.BEAM_INTENSITY



06-04-2011 (10/12)



06-04-2011 (11/12)



Black: 2011-04-06
15:54:20.000

Red: 2011-04-06
15:59:58.000

06-04-2011 (12/12)

