Sudden beam losses during stable beams

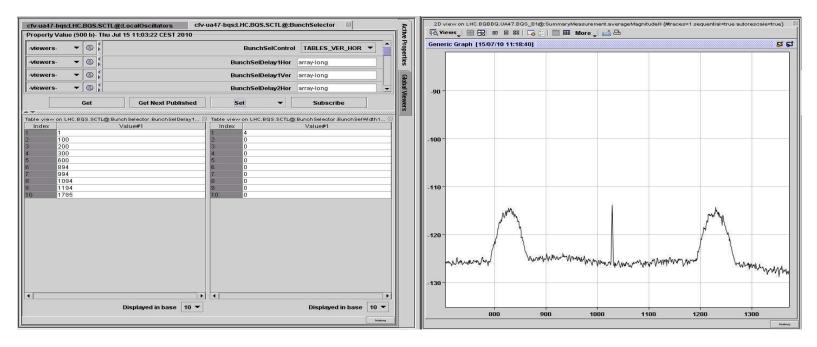
- update -

W. Herr, E. Laface, OP, ...

Observations since last WG

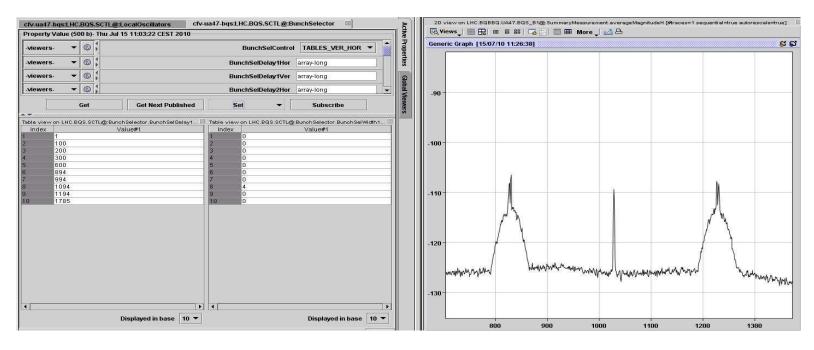
- 5 fills with filling scheme: 13b_8_8_8
- Fill 1225 L above 10³⁰, no sudden losses, "gentle" lumi scans, FMCM dump
- Fill 1226 L above 10³⁰, no sudden losses, "gentle" lumi scans
- Fill 1229 L above 10³⁰, no sudden losses, damper studies at end?
- Fill 1232 L above 10^{30} , losses, usual pattern (i.e. bunches 1 4) \longrightarrow
- Fill 1233 L above 1.5·10³⁰, no sudden losses, damper partially on

Schottky spectra - bunch 1



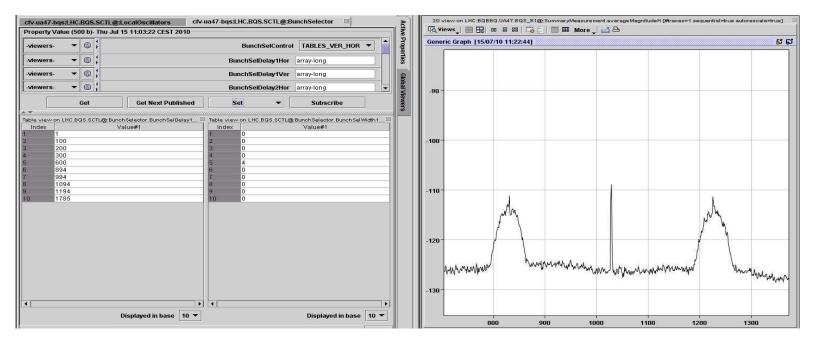
- → Transverse Schottky spectrum bunch 1 (collisions 1,2',5)
- \longrightarrow Fill 1229, Damper on ?

Schottky spectra - bunch 10941



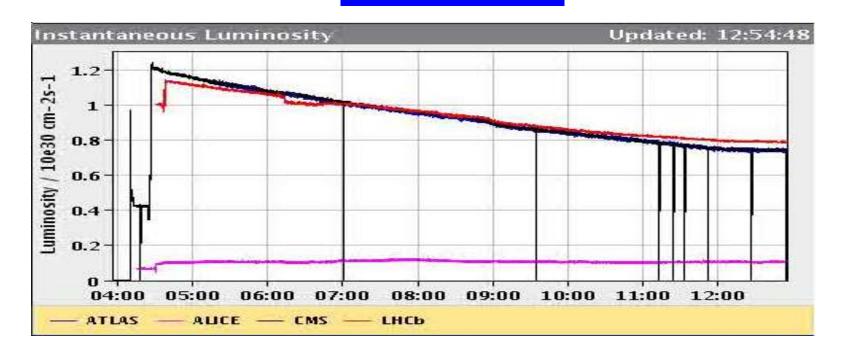
Transverse Schottky spectrum bunch 10941 (collisions 2',8)

Schottky spectra - bunch 6001



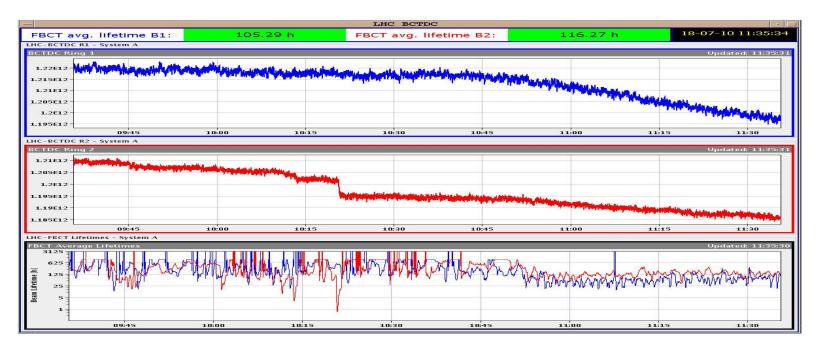
Transverse Schottky spectrum bunch 6001 (no collisions)

Damper test

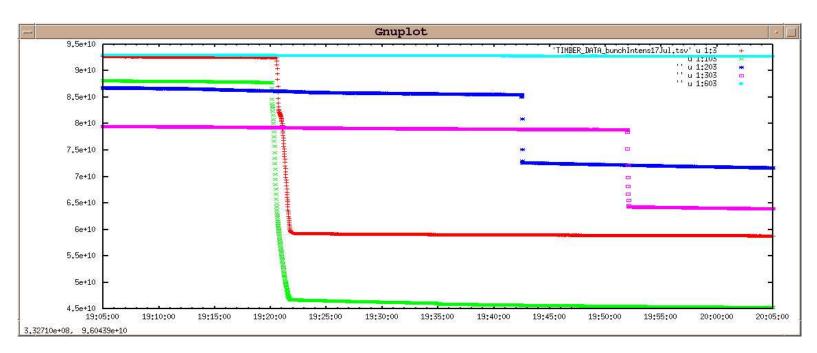


Luminosity with and without transverse damper (fill 1229)

Damper test



Luminosity with and without transverse damper (fill 1233)

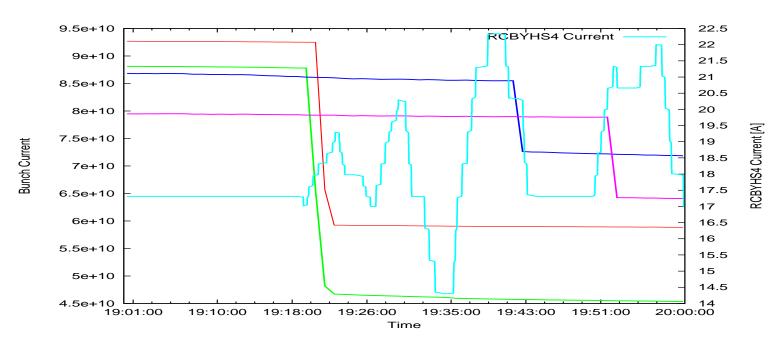


→ Losses in fill 1232

- According to logbook:
 - > Beams not colliding anywhere when bumps collapsed (reference?)
 - > Scan in IP1/5 between 19:20 19:35, extensive scanning in IP2 after



Scan in ALICE ...



Scan in ALICE (details)

Possible actions:

- > Same as last meeting, most could not be done
- > Should manage to provoke losses, seems not easy for already weaker beams