#### LHC instruments

## LHC BPM multibunch aquisition N. Mounet and E. Métral

Acknowledgements: B. Goddard, V. Kain, T. Pieloni, B. Salvant

N. Mounet and E. Métral - LHC BPM multibunch acquisition - ICE meeting 09/02/2011

### LHC BPM multibunch aquisition

- It gives the average position of individual bunches.
- Advantage w.r.t dampers pickup (see. T. Pieloni):
  - Can choose the number of bunches and of turns acquired.
- Drawbacks w.r.t dampers pickup (see. T. Pieloni):
  - Less sensitive,
  - Cannot play to much with this acquisition as it is linked to the injection system: if one changes anything (# turns aquired, bunch pattern, BPM crates selected), these have to be set back to their initial values before the next injection, otherwise injection will fail !

### LHC BPM multibunch aquisition

 To access the application: login to cs-ccr-ps1, then launch ccm, choose "LHCOP" and find:

LHC Control → LHC Beam Measurements → Multiturn

- Data are saved in
  - /nfs/cs-ccr-nfs4/lhc\_data/OP\_DATA/FILL\_DATA/1501/BPM/
  - For old data:

/nfs/cs-ccr-nfs4/lhc\_data/OP\_DATA/FILL\_DATA/ALL\_FILL\_DATA/1497/BPM/

Experts: Verena Kain, Lars Jensen.

Replace by the actual number of the fill you are looking for.

# LHC BPM multibunch aquisition



N. Mounet and E. Métral - LHC BPM multibunch acquisition - ICE meeting 09/02/2011