# PHOS in quiet beam run pp at 13 TeV

Yuri Kharlov QA meeting 26.05.2015

# **PHOS** conditions

- Readout configuration:
  - 12 SRU (out of 14) were configured for readout. M2 2 and M2-3 were not stable and masked out.
- CTP trigger rate in PHYSICS\_1 was > 1 kHz, PHOS could not participate.
- PHOS was included to PHYSICS\_2 together with ZDC.
- One run 223326 was marked as good, it was reconstructed (1.4M events triggered by AD-or and AD-and)
- Reconstruction ran without bad channel map

#### Cluster multiplicity Gluster occupancy (E>0.5 GeV) in M2



Cluster occupancy (E>0.5 GeV) in M3



Cluster occupancy (E>0.5 GeV) in M4



N clusters

### Mean cluster energy



x, cells

x, cells

E ), GeV

÷.

## Cluster energy spectrum



#### Invariant mass spectra



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# Results of analysis with BCM

- Cluster occupancy and mean energy maps show hot spots. The noisiest channels were suppressed, but ptobably not all yet
- Cluster energy spectrum: looks better in M1 and 2, but still unphisycal in M3 and M4.
  Further clean up of noise is needed.
- No  $\pi^0$  peak is seen on invariant mass spectra in neither modules.
- Further tuning of APD high voltage is needed to equalize gains, noisy still dominates over signal