DQM status report
DESY CMS Group meeting

Amita Raval
on behalf of the DQM Team

Data certification

Remote offline DQM has been working very well!

→ significant contribution to CMS-wide data certification

As of March 30th, certification results are available in

1) Run Registry

2) in JSON files for use with CRAB

They can be found at:

https://cms-service-dqm.web.cern.ch/cms-service-dqm/CAF/certification/

Data certification: cont.d.

Current status:
- manual entry of by-run and subsystem (entered by shifters)
- DCS entry of by-LuminositySections and subsystem (done automatically)
  (shown on next slide)

Planned:
- automatic certification by-LuminositySections
- offline DQM upgrade to handle histograms by-LuminositySections: 36x

RunRegistry upgrade defined and scheduled
- work starting now; results expected by June/July

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Run Registry: March 30th

HV information per Luminosity Section is being filled since March 30th (Run 129863)

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Online DQM

Online DQM:

running smoothly with offline-style plots available in real time
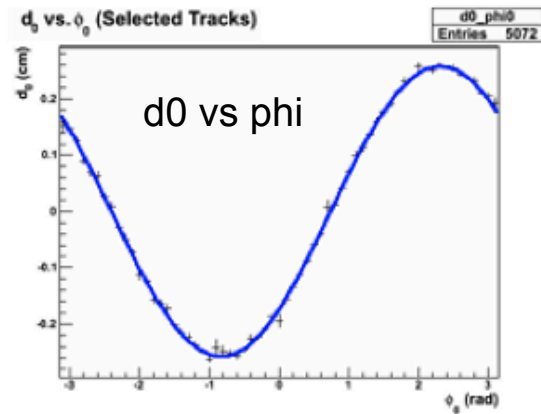(a few examples are shown on the next slides)

Smooth running mostly due to dedicated efforts over the last months in:
• documentation / shift instructions / tutorials
• software bug fixes and upgrades
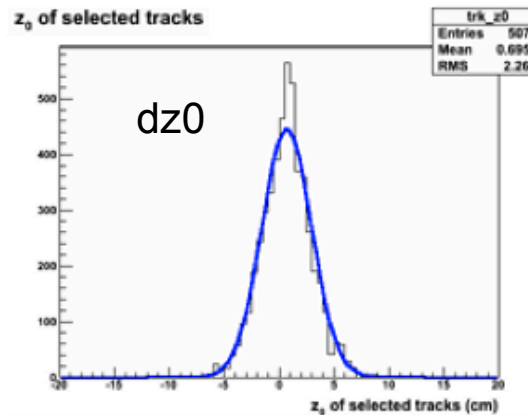• continuous support from on-call experts and field managers
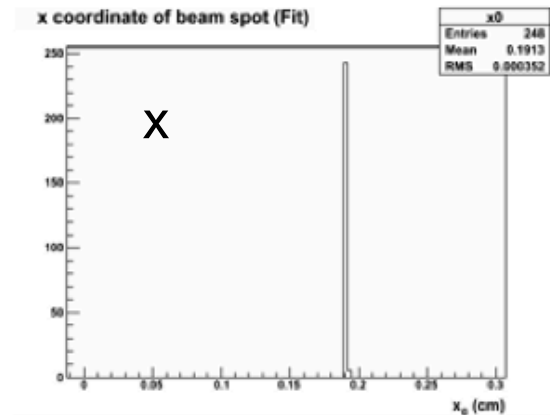
Backup slides….

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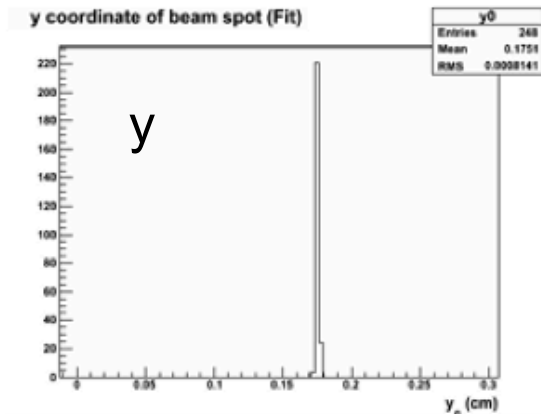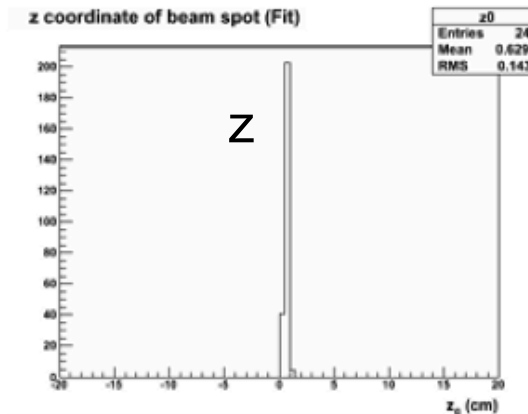
Beamspot in online DQM
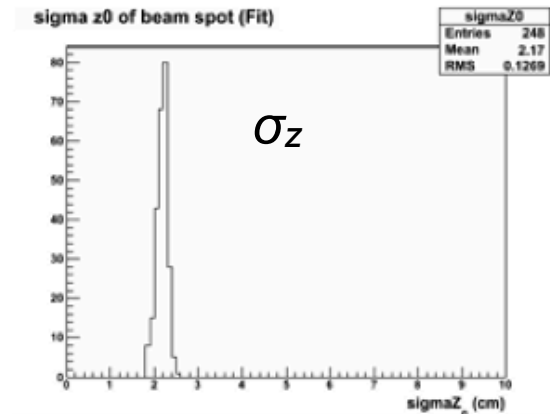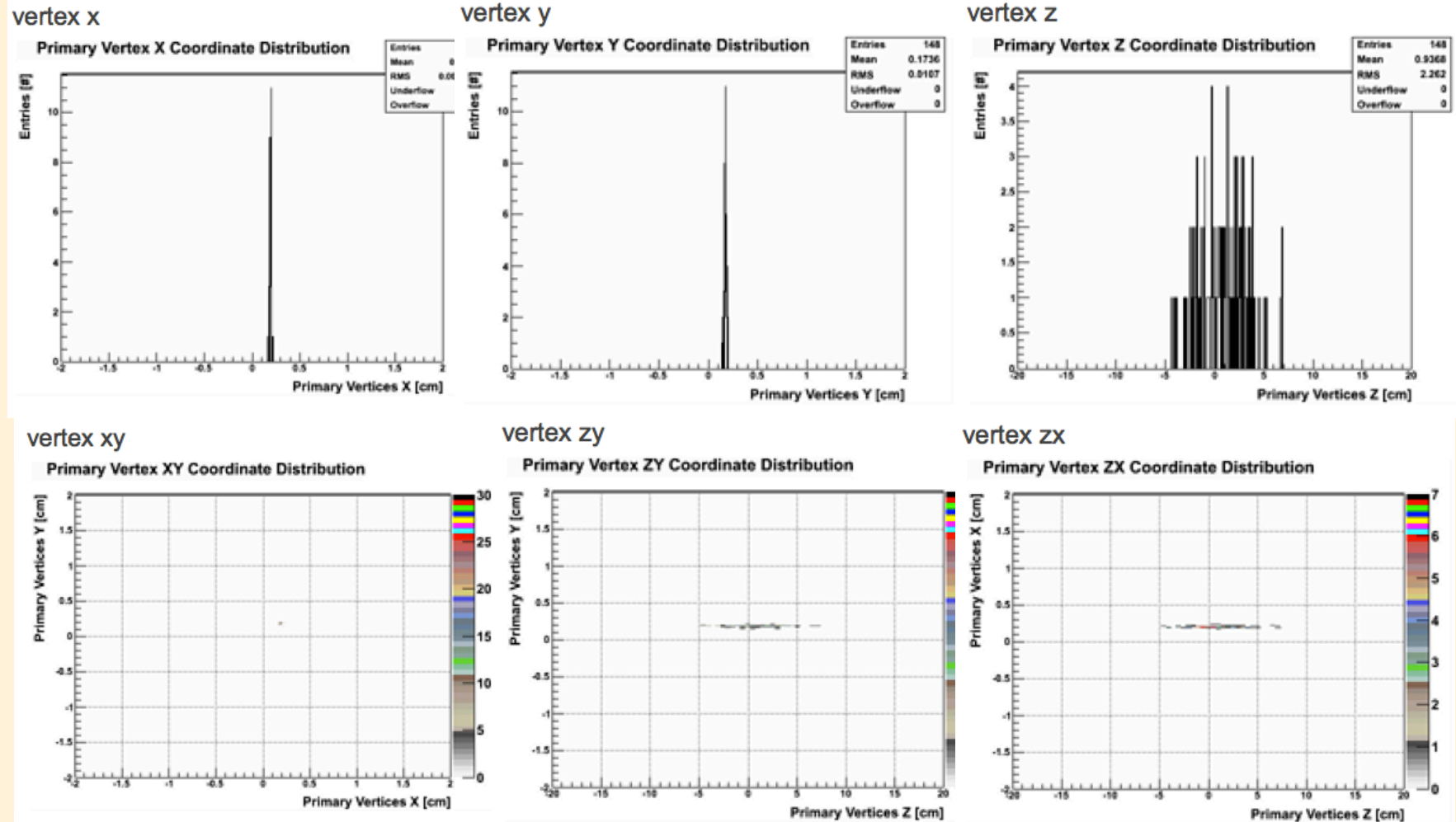

- Made available online "out of the box" at t = 0
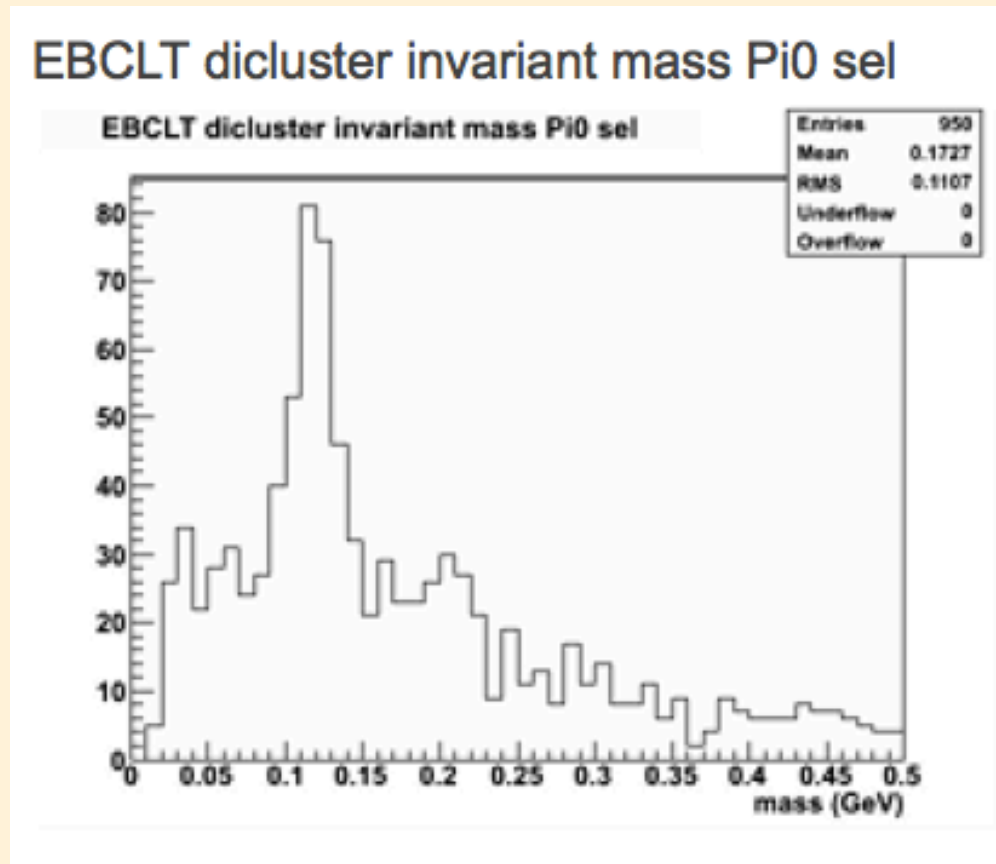
- Being sent to LHC in real time via DIP

Beamspot in online DQM

Fast beamspot measurement from 3D-vertex
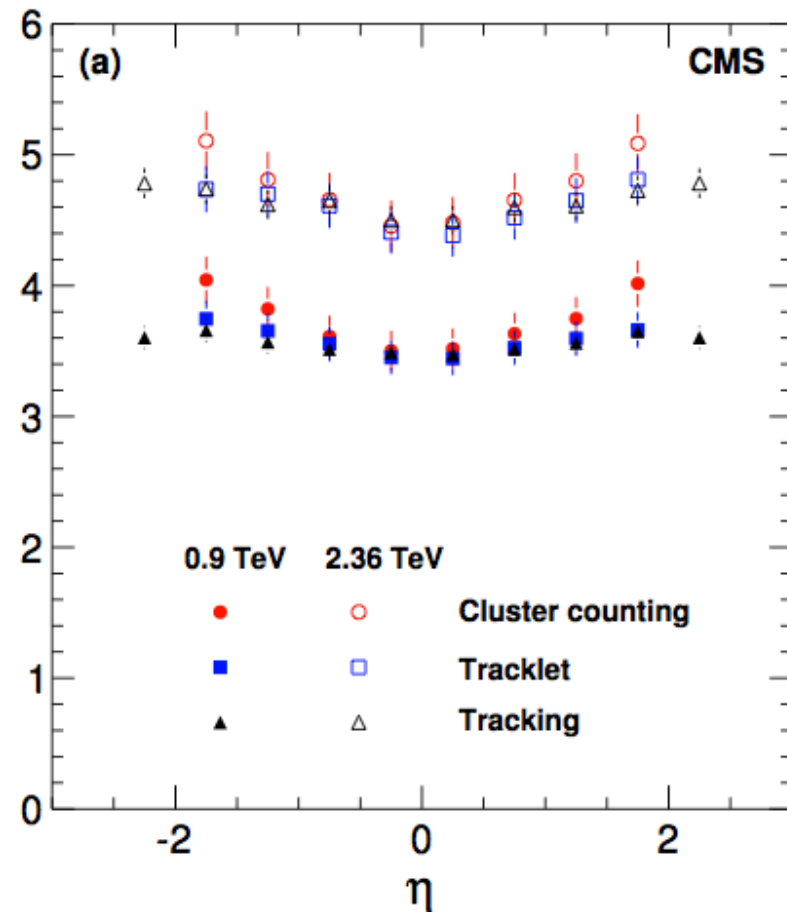distributions obtained with pixel-only tracks
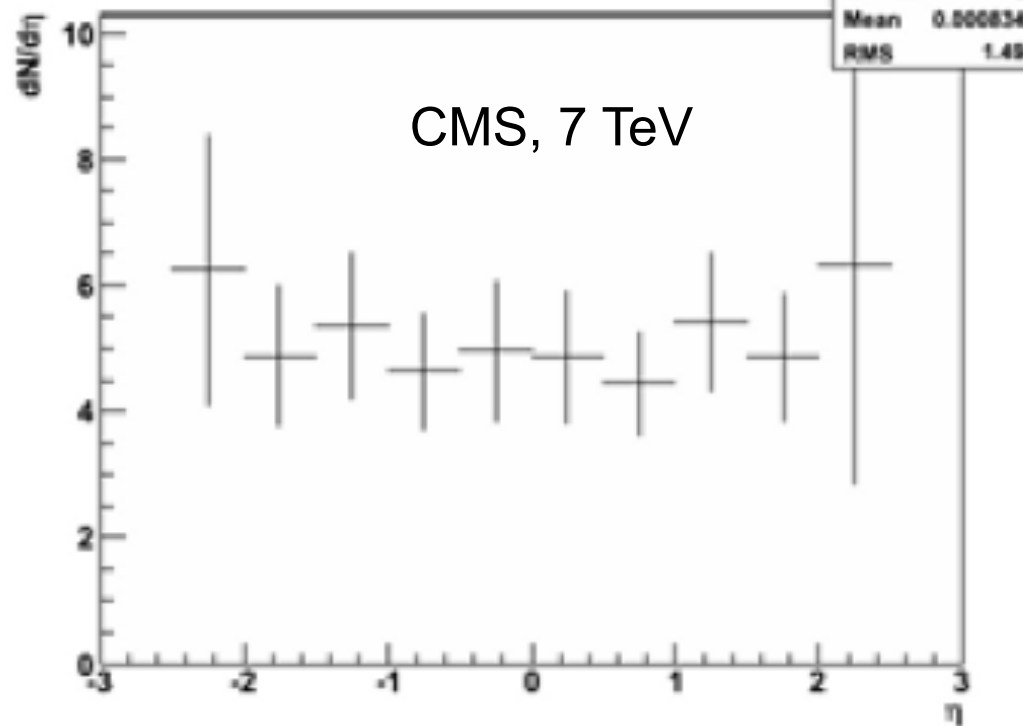
Online DQM: Online physics

ECAL: π^0

Online DQM: Online physics analysis?

Charged-hadron multiplicity density (dNch/dη) as a function of pseudorapidity….

Online DQM GUI: March 30th