

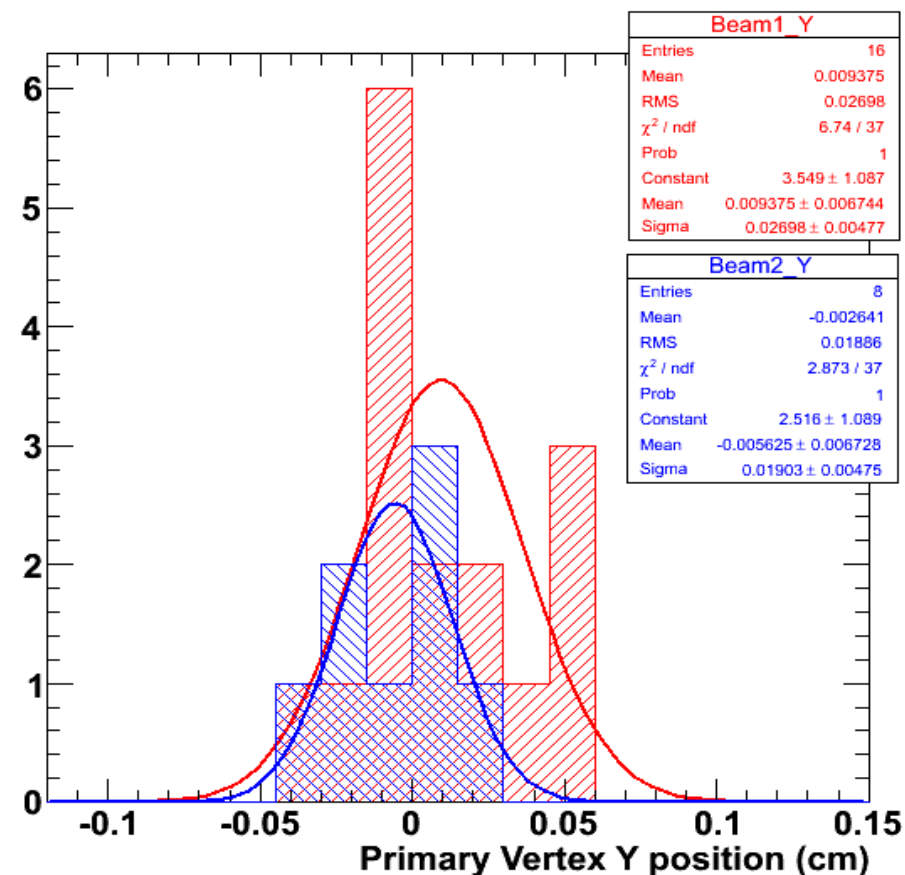
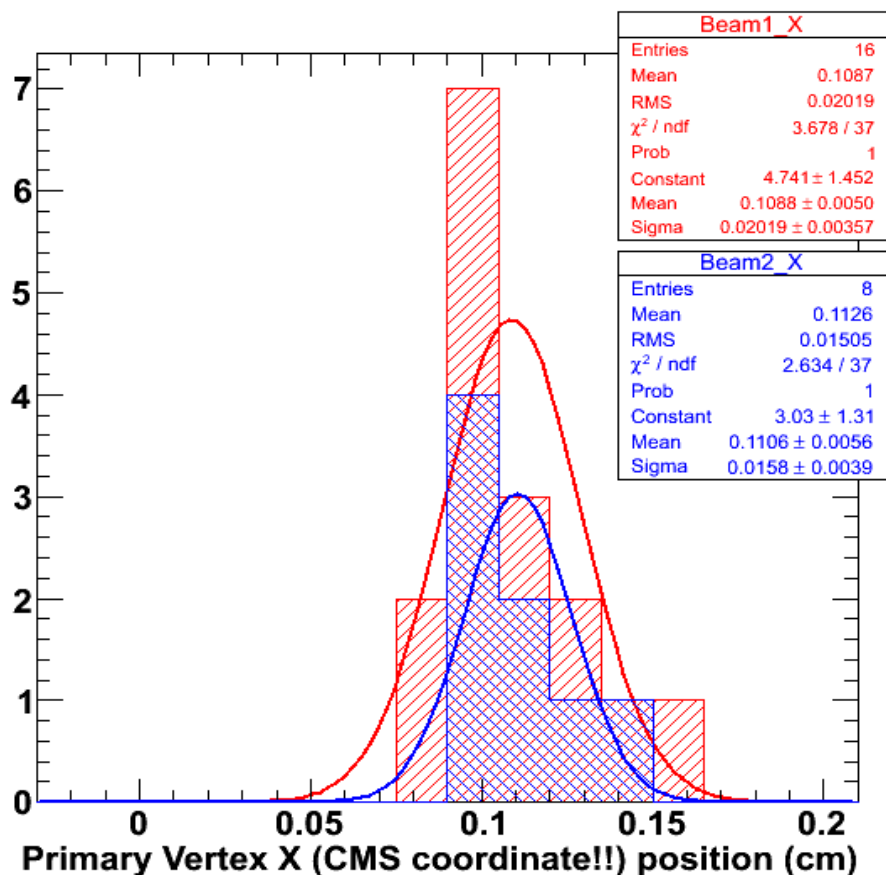
# First CMS 7 TeV Collisions

Anders Ryd

on behalf of CMS

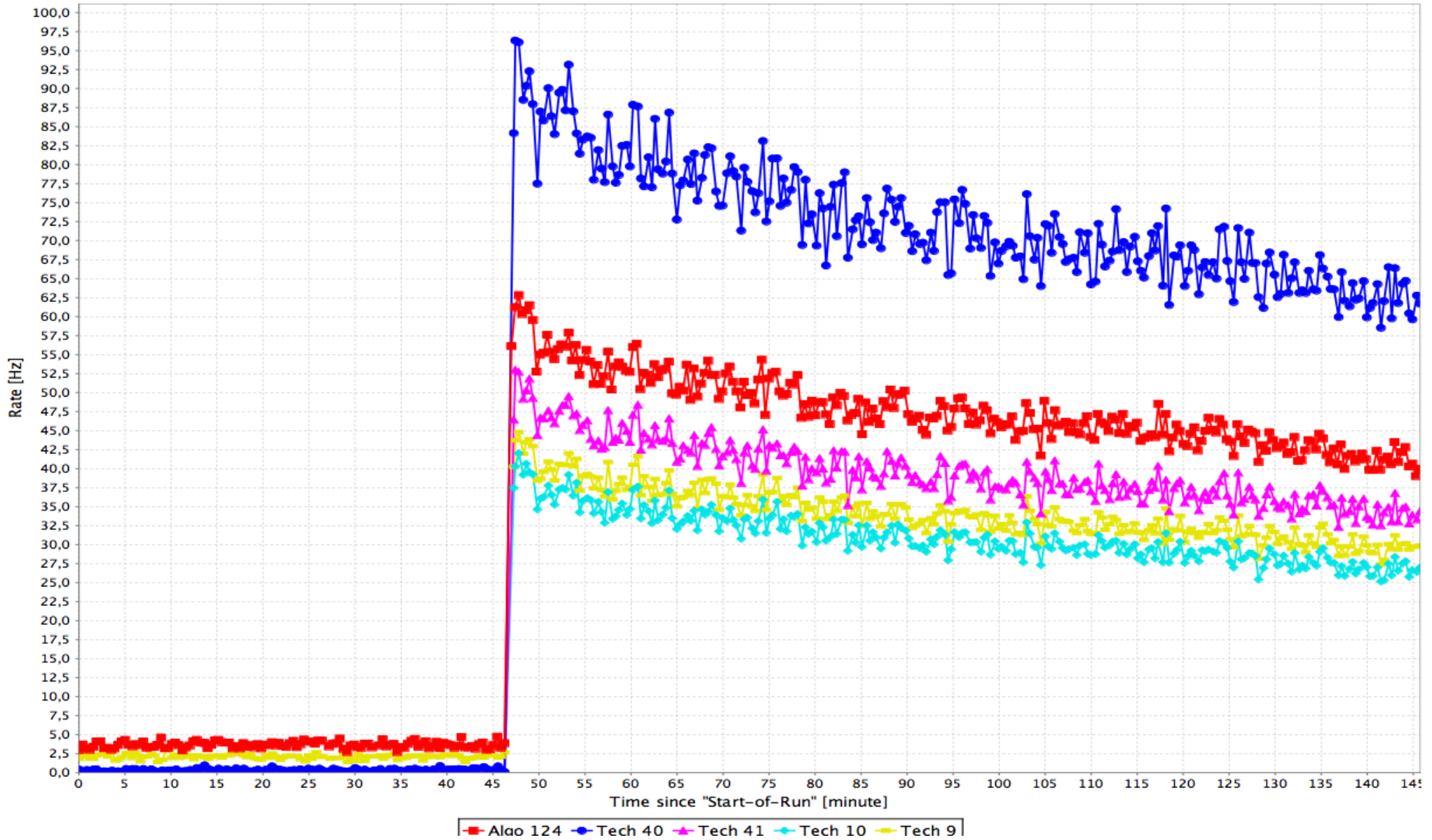
March 31, 2010

# Beam Gas Studies



No correction required - we should see collisions

# Trigger Rates





Delay  
3.0s

Run  Event   
Filter

Tue Mar 30 11:20:30 2010 GMT  
Lumi block id: 0

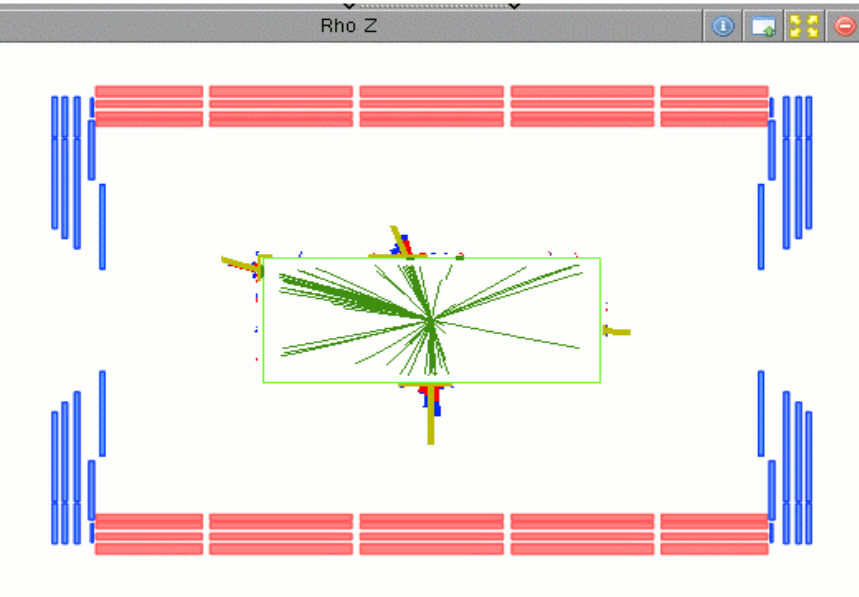
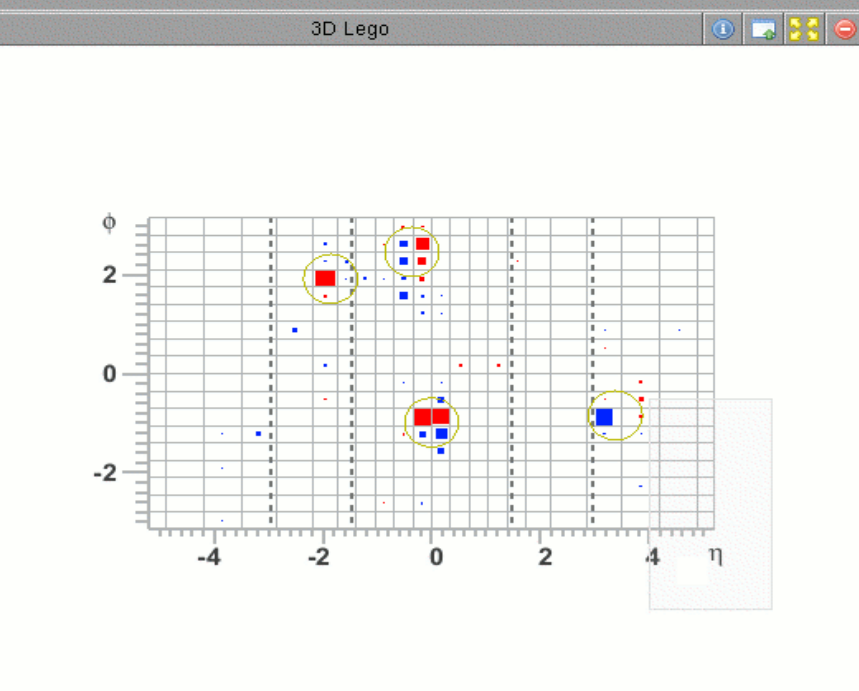
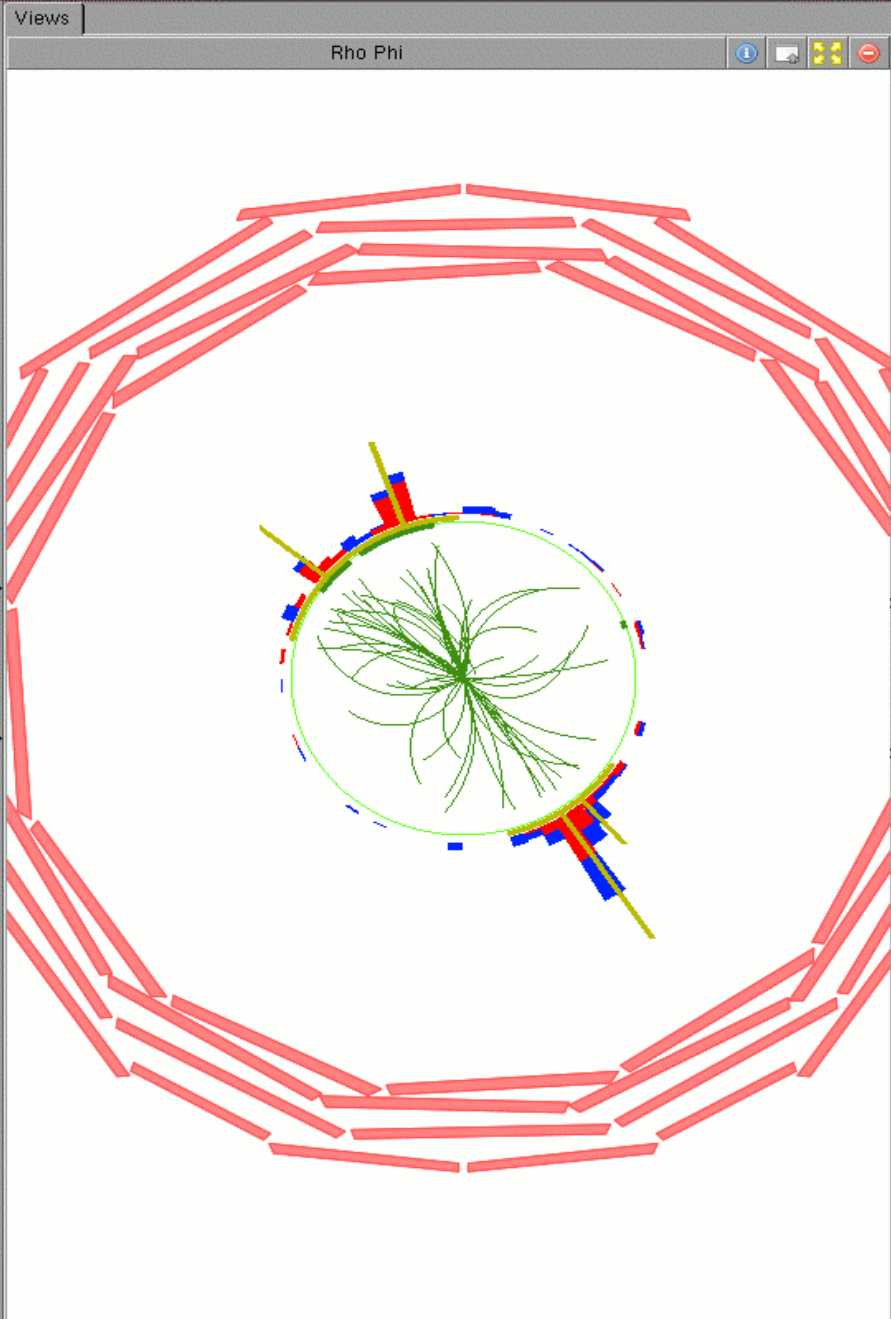


Summary View

- ECal
- HCal
- Jets
- Tracks
- Muons
- Electrons
- Vertices
- DT-segments
- CSC-segments
- Photons
- MET
- met

	pt	eta	phi
met 0	20.3	-3.2	2.9

- CaloMET





Delay 3.0s

Run 132440 Event 6271948

Tue Mar 30 13:54:16 2010 CEST

Event filtering is OFF

Lumi block id: 267

Summary View

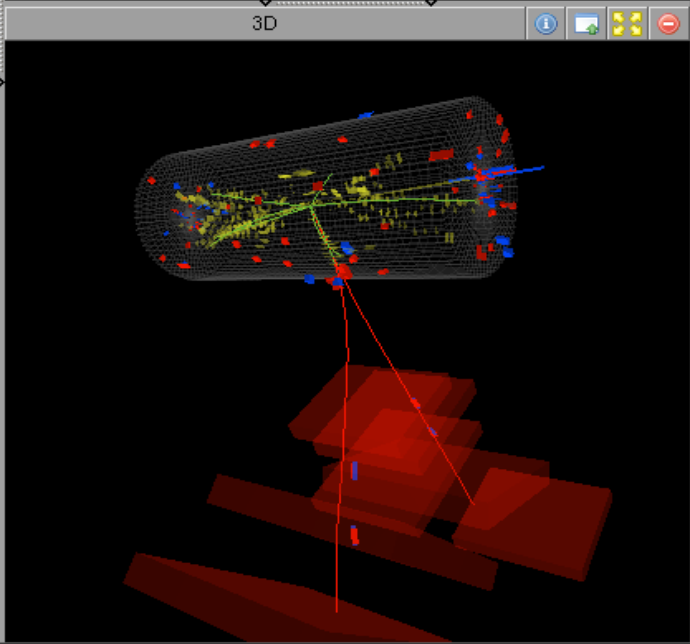
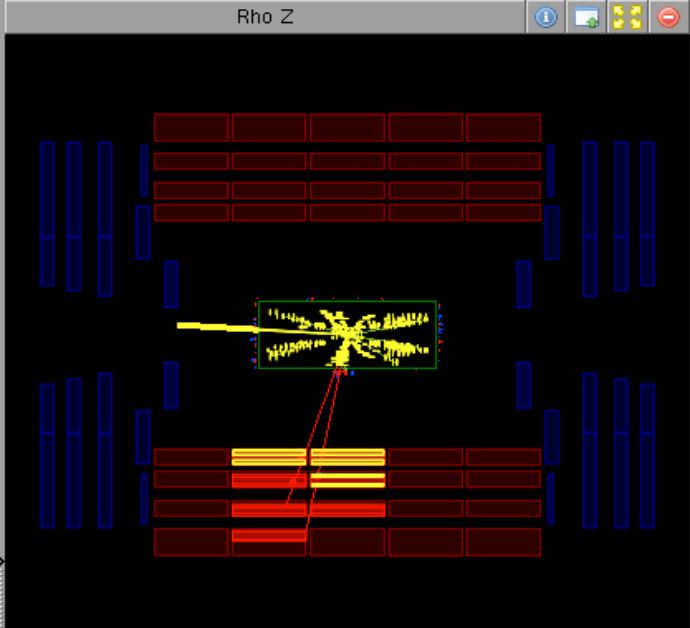
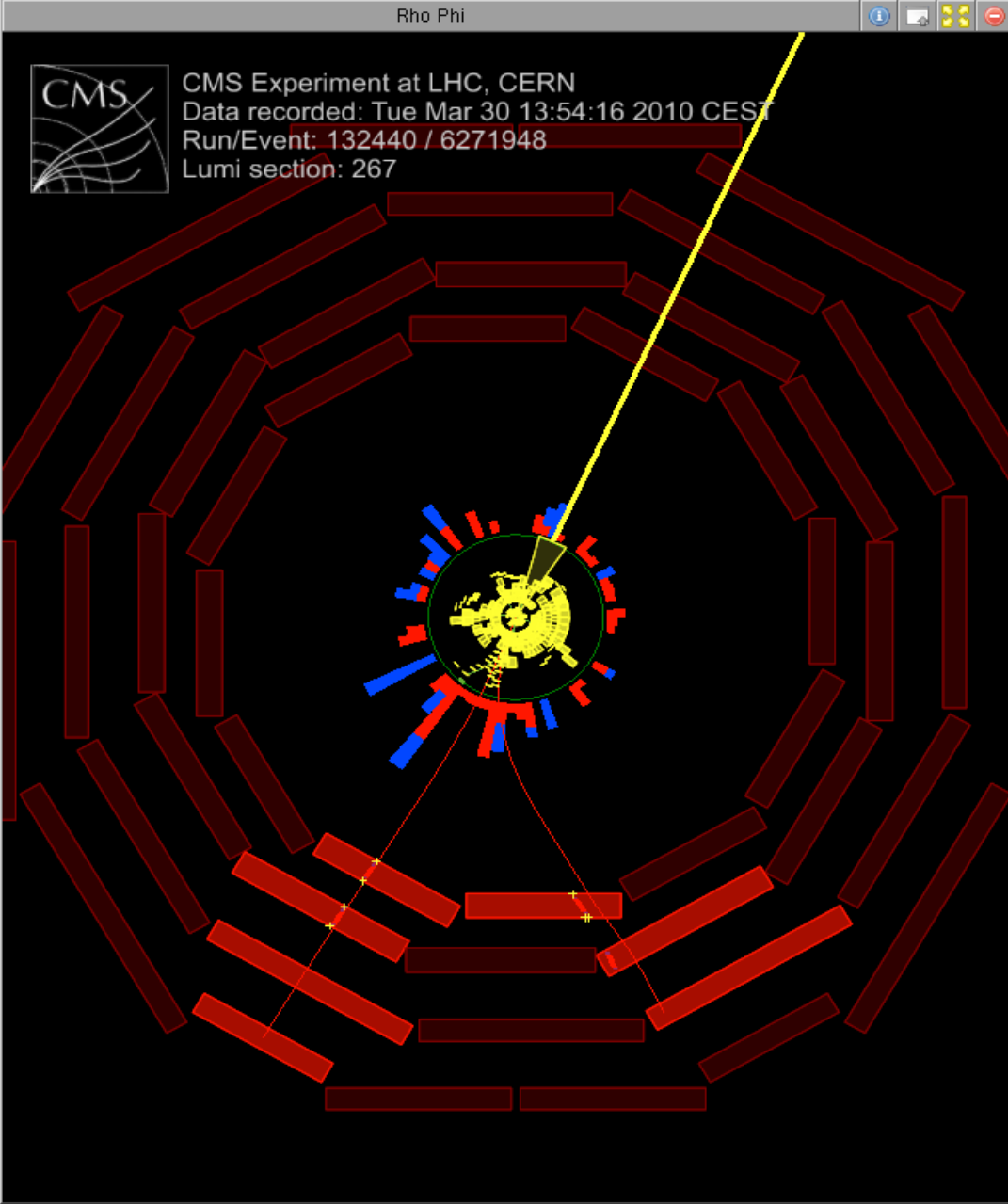
Add Collection

- ECal
- HCal
- Jets

	pt	eta	phi
Jet 0	27.7	-3.5	1.1
Jet 1	4.1	0.0	-2.4
Jet 2	3.5	-0.2	-1.6
Jet 3	2.3	3.3	-2.5
Jet 4	2.2	2.9	-3.1
Jet 5	1.7	-1.9	-2.2
Jet 6	1.5	3.5	0.3

- Tracks
- Muons
- Electrons
- Vertices
- DT-segments
- CSC-segments
- Photons
- MET
- rpcRecHits
- generalTracks

Views

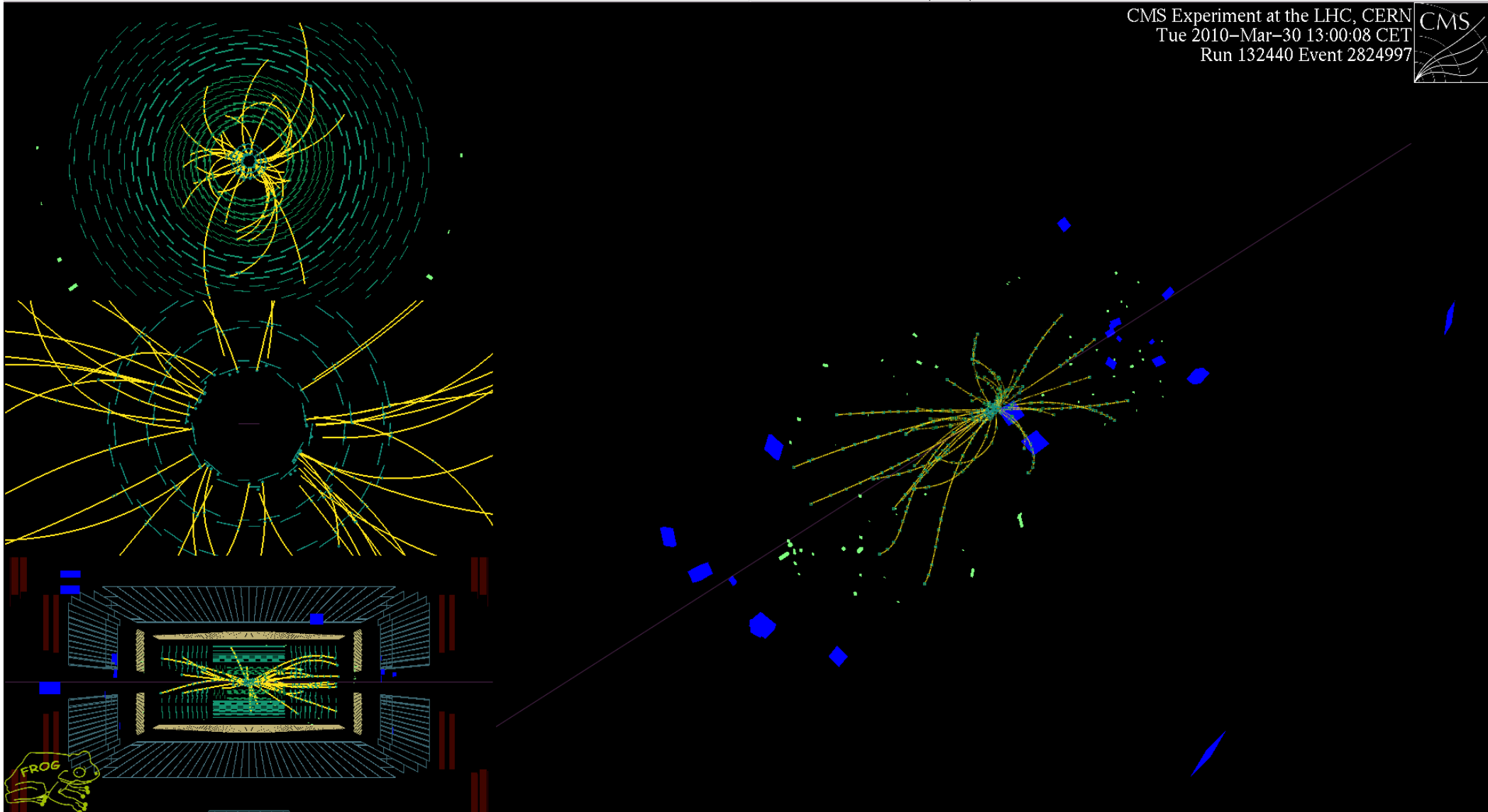


# Tracking Performance

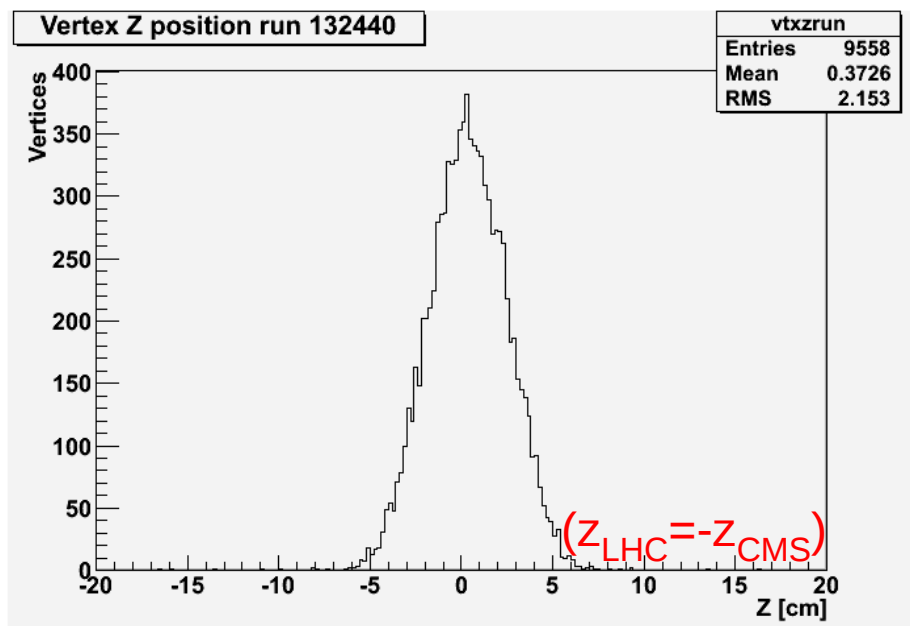
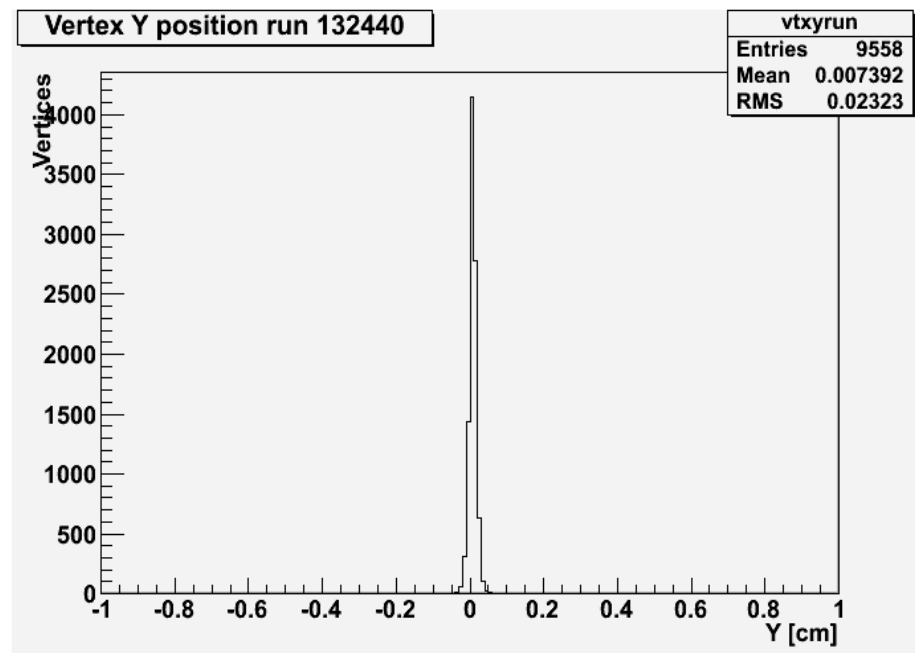
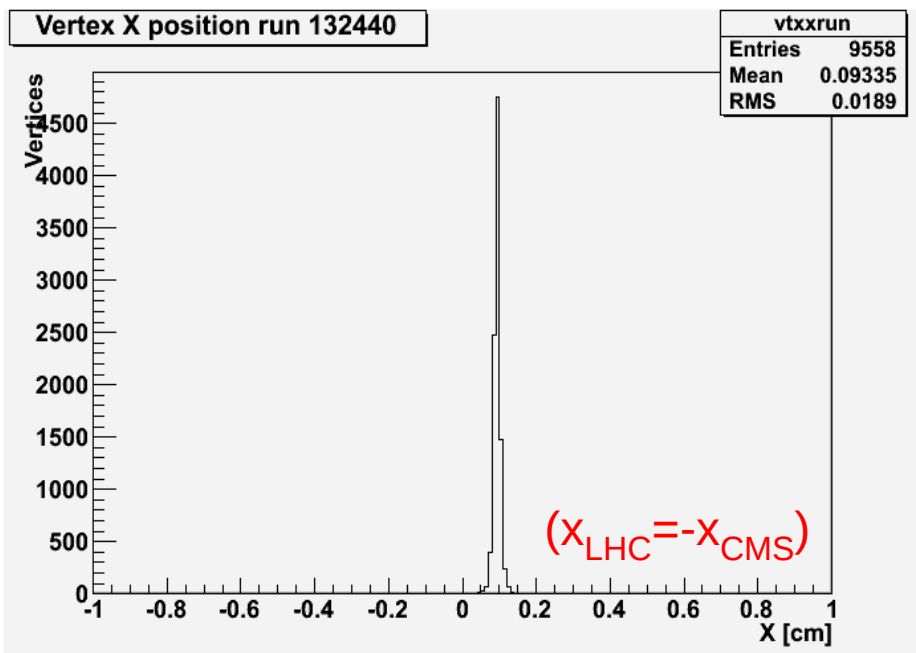
File Event Geometry View ?  
InfoBox

Run:132440 Event:2824997 (10/10) Tue 2010-Mar-30 13:00:08 CET

CMS Experiment at the LHC, CERN  
Tue 2010-Mar-30 13:00:08 CET  
Run 132440 Event 2824997



# Beam Spots



Very preliminary interaction region size: 50-60  $\mu\text{m}$

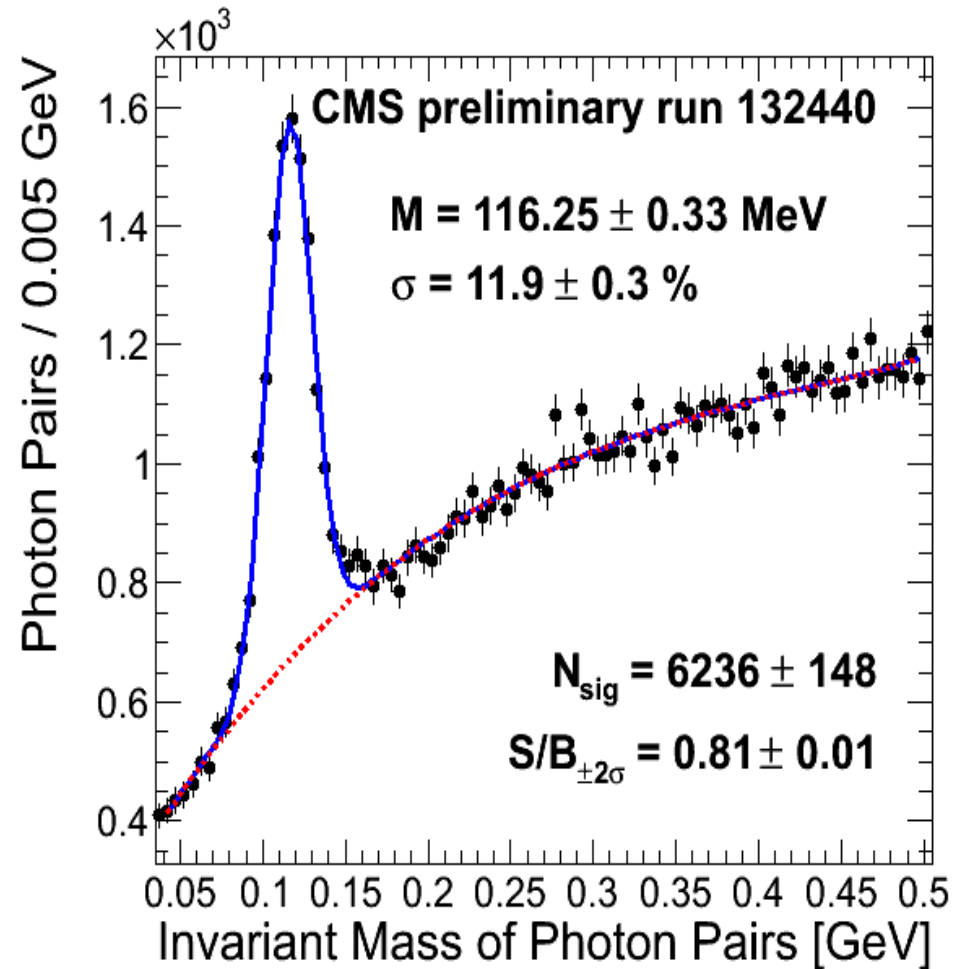
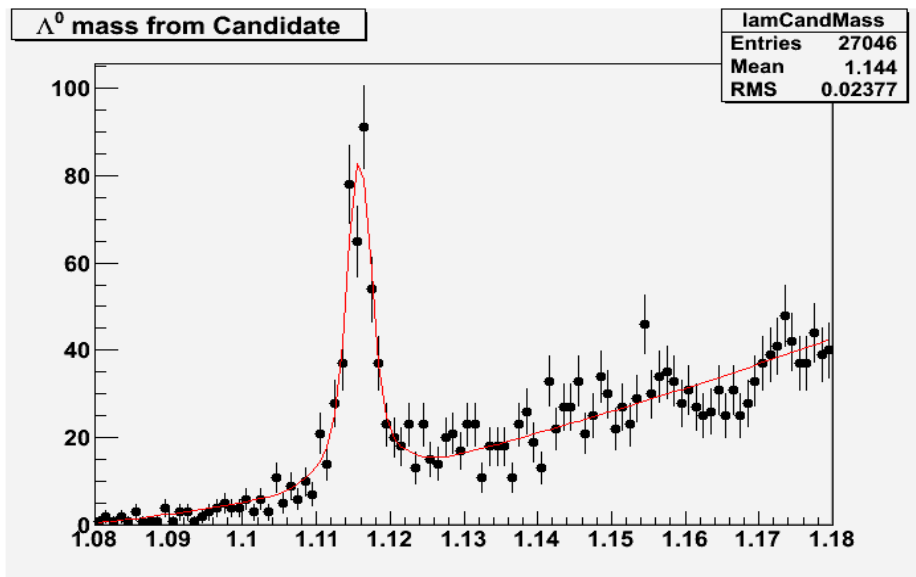
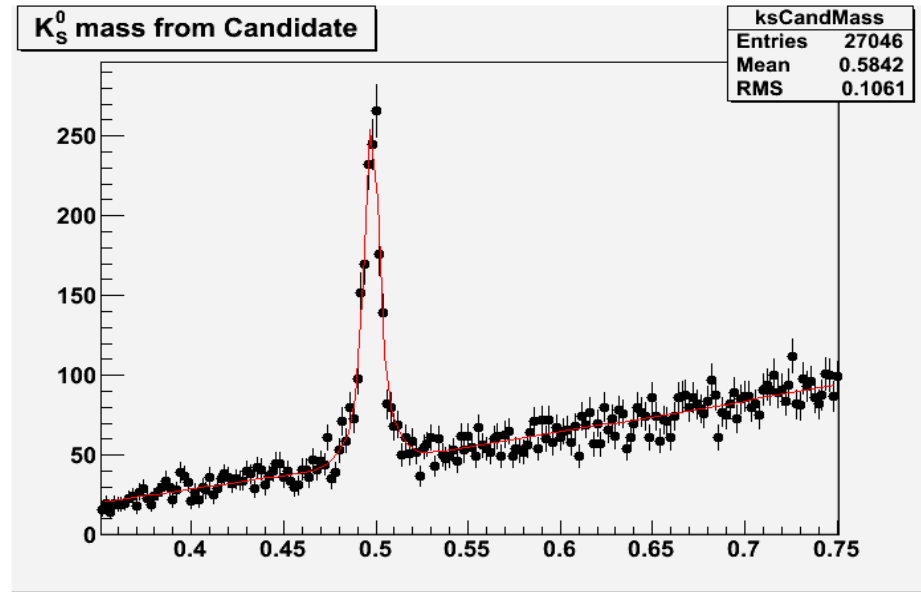
[beam sizes larger by about  $\sqrt{2}$ ]

Beams well centered in z.

Beam small in all dimensions!

# Mass Peaks

At the start of the fill we had a min-bias rate of  $\sim 65$  Hz





# Conclusions/Outlook

- All of CMS thanks LHC for the excellent performance!!!
- We would like to perform a (mini) lumi scan as soon as possible
- We like the 3 bunch scheme proposed yesterday and would like to continue 7 TeV operation.