

# **PHENIX Run16 status**

## time meeting 05/31/2016

Denis Jouan

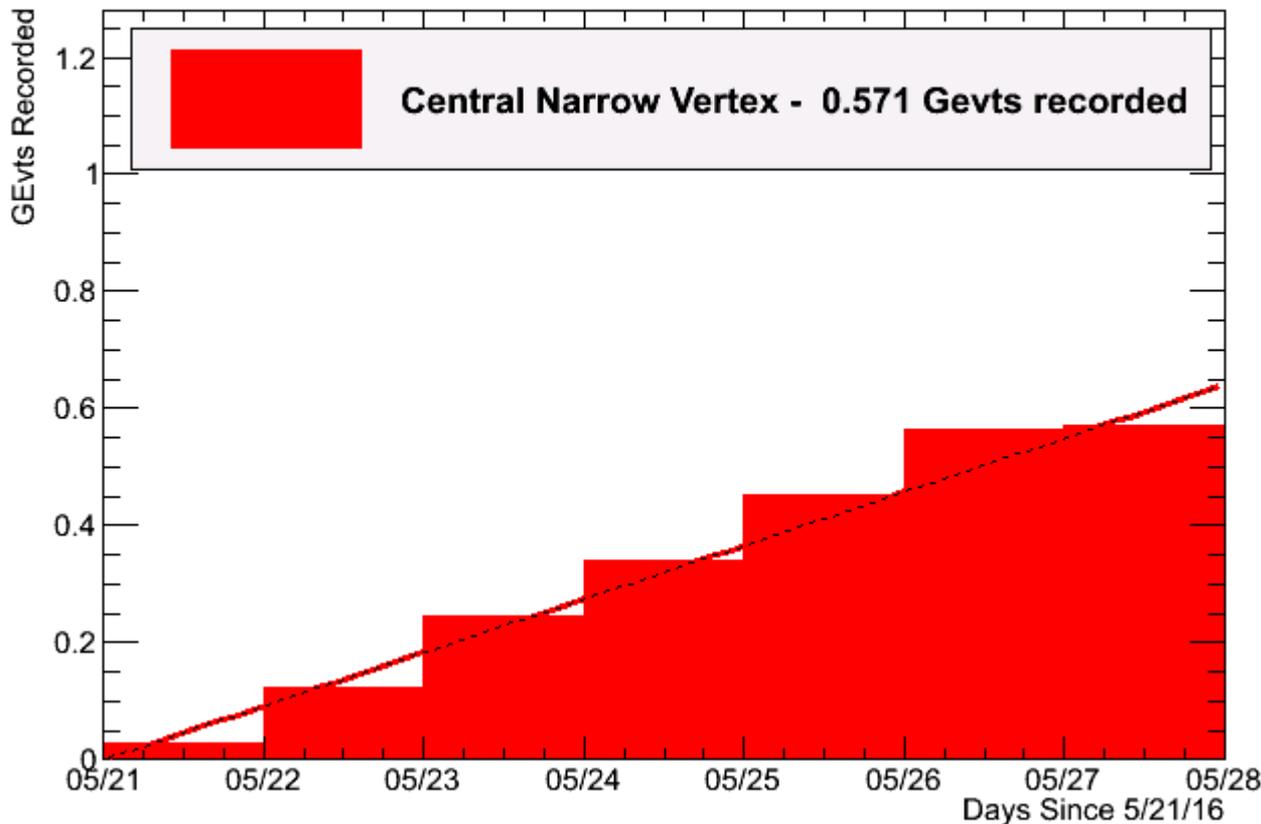
PHENIX Run 16 Coordinator

Institut de Physique Nucléaire Orsay,  
CNRS/IN2P3, université Paris sud, Université Paris Saclay

# d-Au 62: very successful beam and data taking

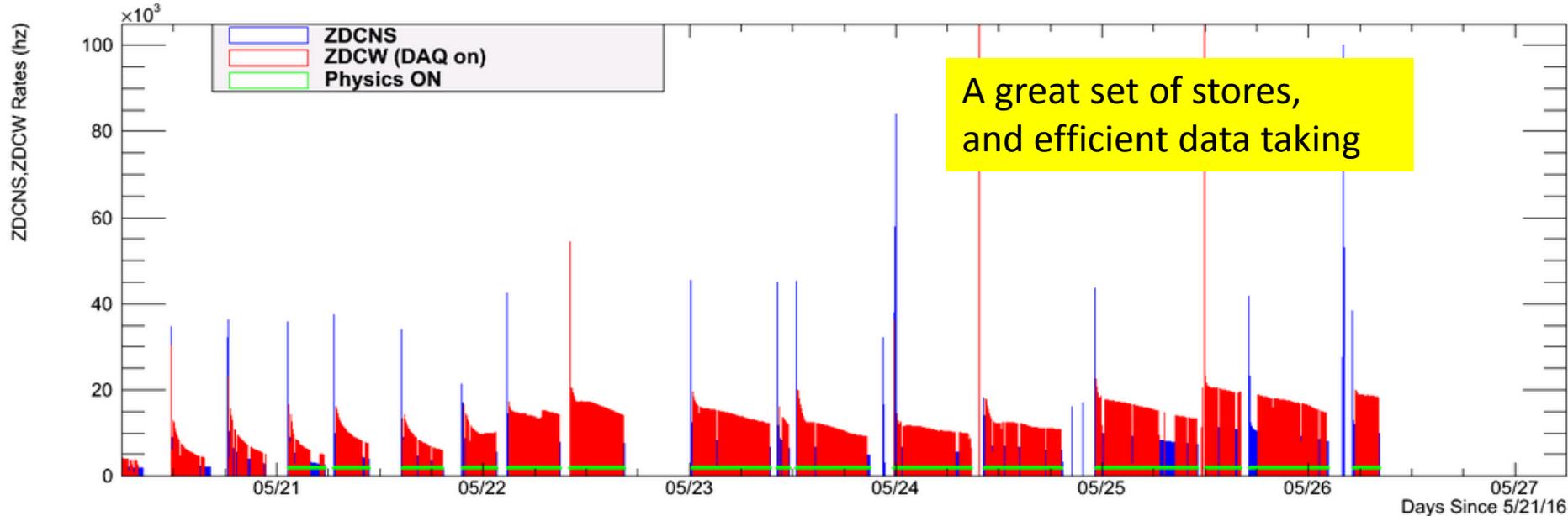
PHENIX GEvts vs Day

Fri May 27 06:00:11 2016

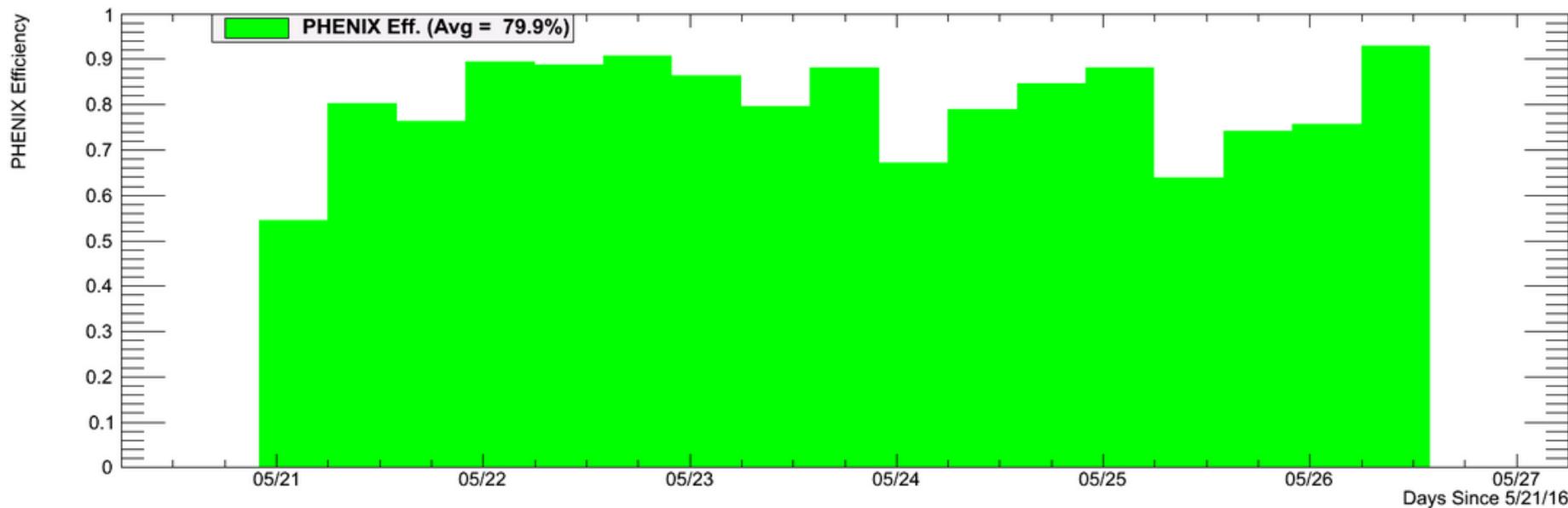


For the Minimum bias (=all collisions) trigger *inside* ZV<10cm and 10% centrality:  
Recorded number of events

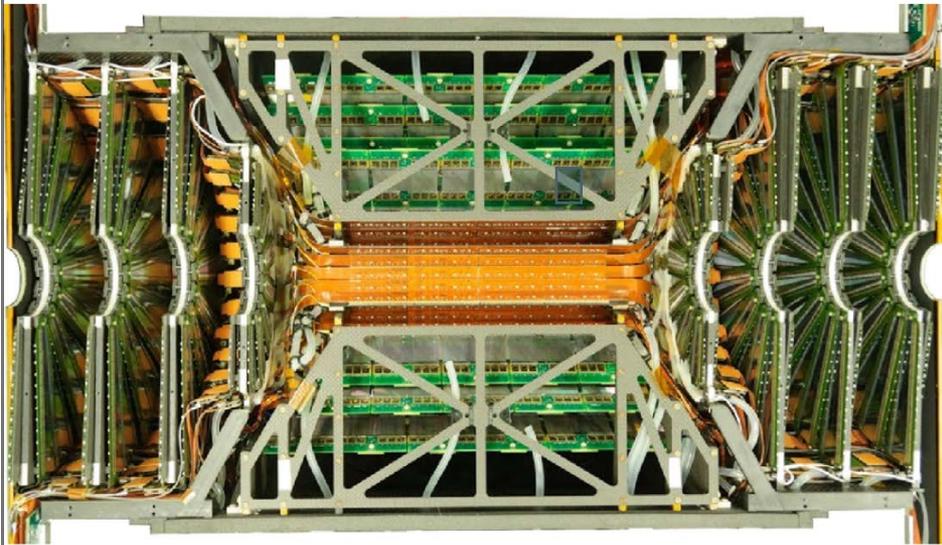
-> 280 Million 5% most central collisions and ZV<10cm



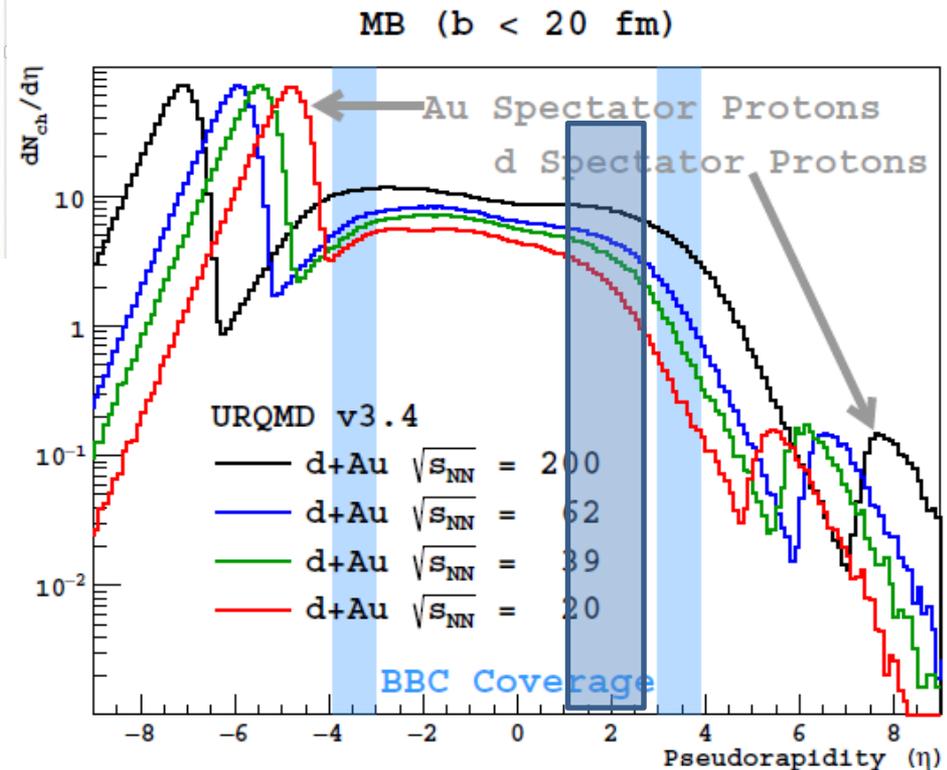
PHENIX Efficiency vs Day



# Also a good point to check and compare BBC and FVTX triggers



FVTX (1.2-2.4 eta) at 20 GeV sees a higher multiplicity than BBC



# It was going so well, why had it to be cut short ?

- Thursday 26 may, 2-3 in the morning, a sequence of alarms led to the complete shutdown of the power and gaz in the detector, and release of inert gaz.
- Only 17 hours later, after BNL teams (safety, fire, cas, cad, phenix, ...) solved all issues and changed the air in the IR (some kind of « invisible pollution-like smoke » was remaining), the detector was on again (except TOF and DC-PC)
- DC-PC and TOFW back in from Sunday evening.

# d-Au 20 GeV

in another kind of smog

- Beam from Saturday night, tuning triggers.
- Meaning of rates unclear, lots of fluctuations.
- effects of backgrounds, timing, still to be understood
- Quick offline analyses will help
- Last minute: new BBC timing (62ns) improves
- Then, optimize intensity and collisions rate, and backgrounds

# Summary

- d-Au 62 GeV: very successful 6 days
- Quick recovery from Friday smoke shutoff, very successful protection and restarting process .
- 20 GeV: collisions from Saturday night
- Still in tuning process, real collisions rates to be confirmed by offline quick analyses
- Just out of the fog ? New BBC timing seems to improve.