

PHENIX Run16 status

time meeting 05/23/2016

Denis Jouan

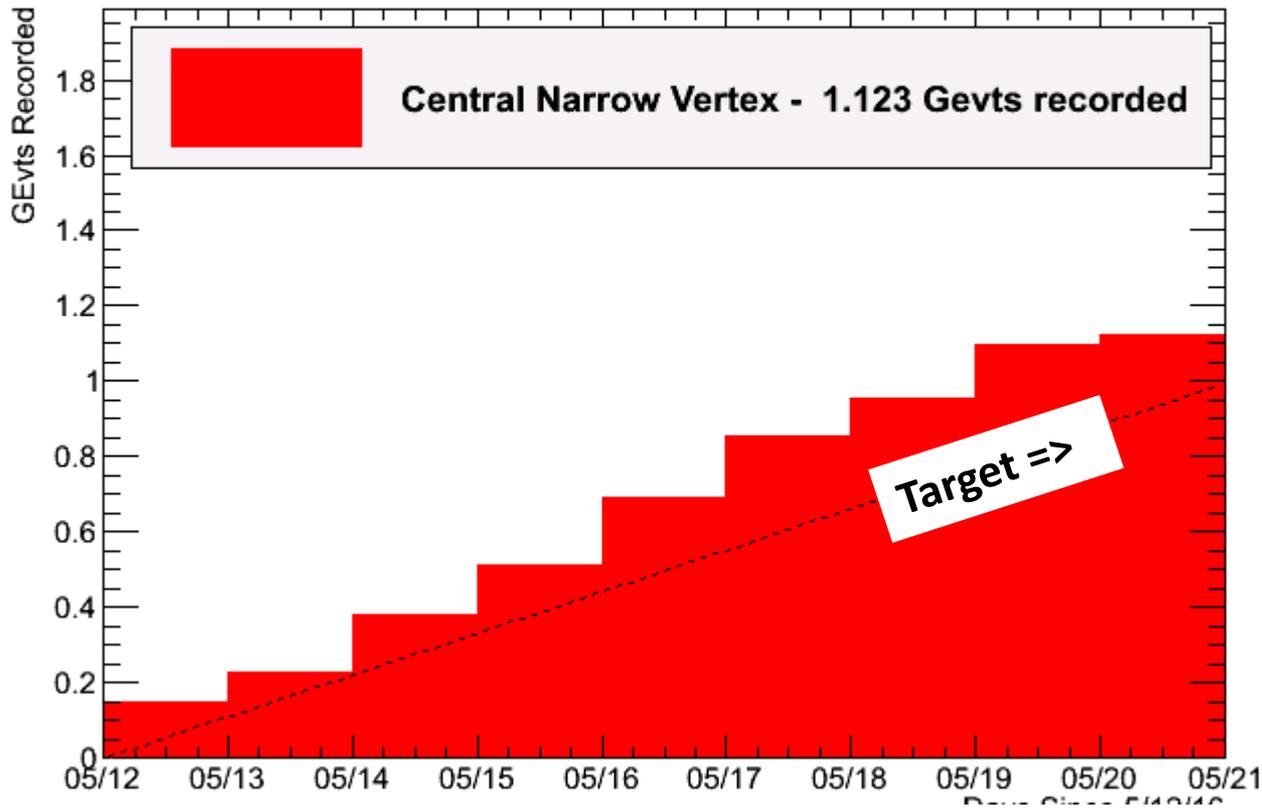
PHENIX Run 16 Coordinator

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

d-Au 200: very successful

PHENIX GEvts vs Day

Fri May 20 09:00:14

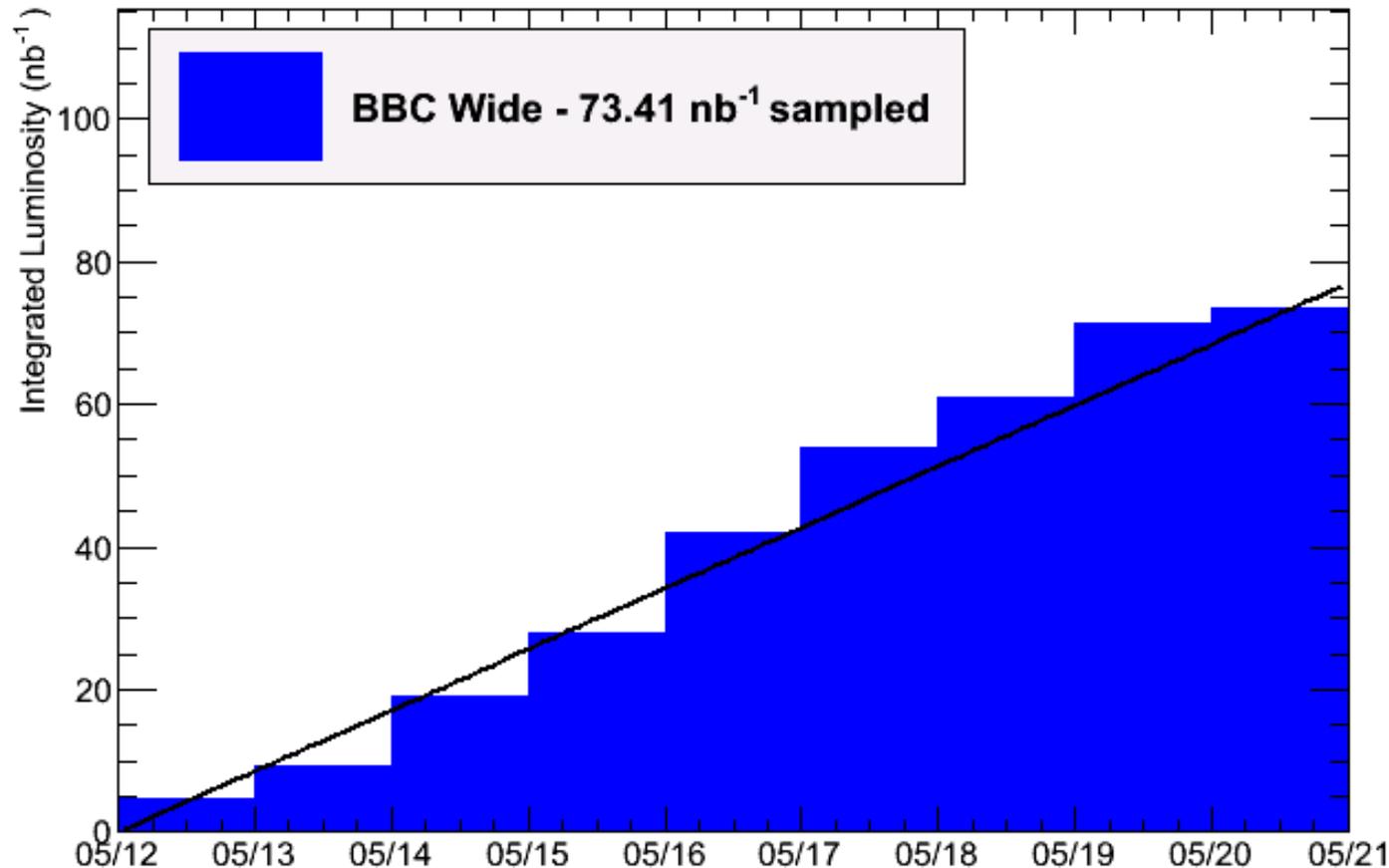


For the
Minimum bias
(=all collisions)
trigger *inside*
ZV<10cm and
5% centrality:
Recorded
number of
events

MPC trigger: live luminosity

PHENIX Integr. Sampled Lumi. vs Day

Fri May 20 09:00:13 2

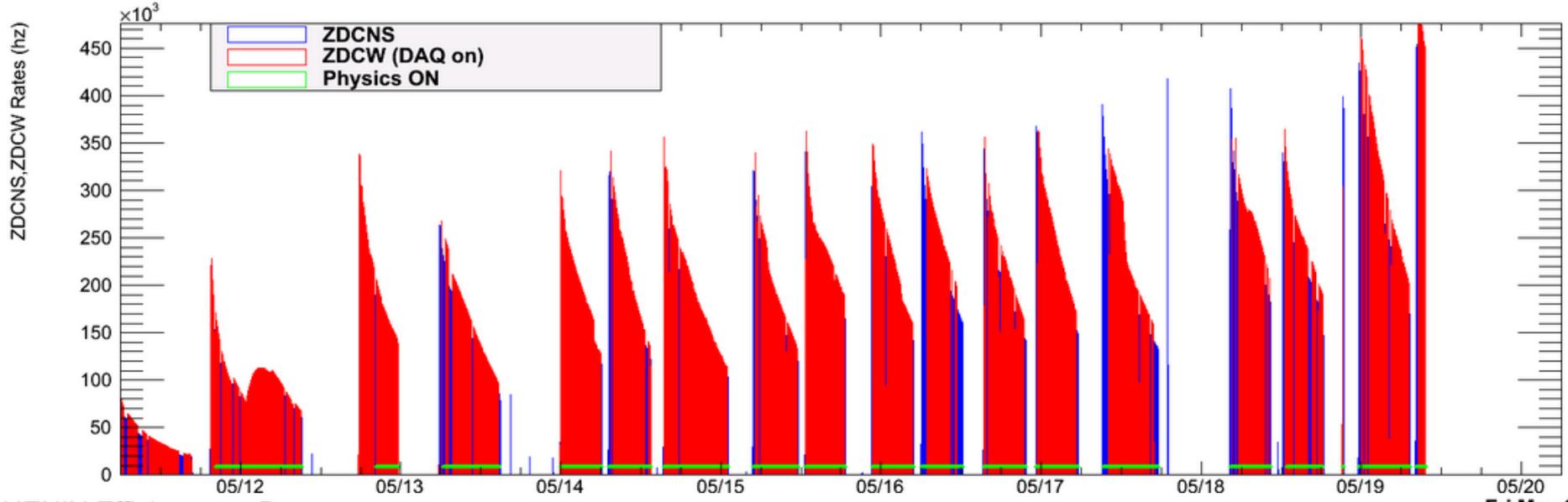


A successful collective effort to go beyond the limits, but some final downtimes....

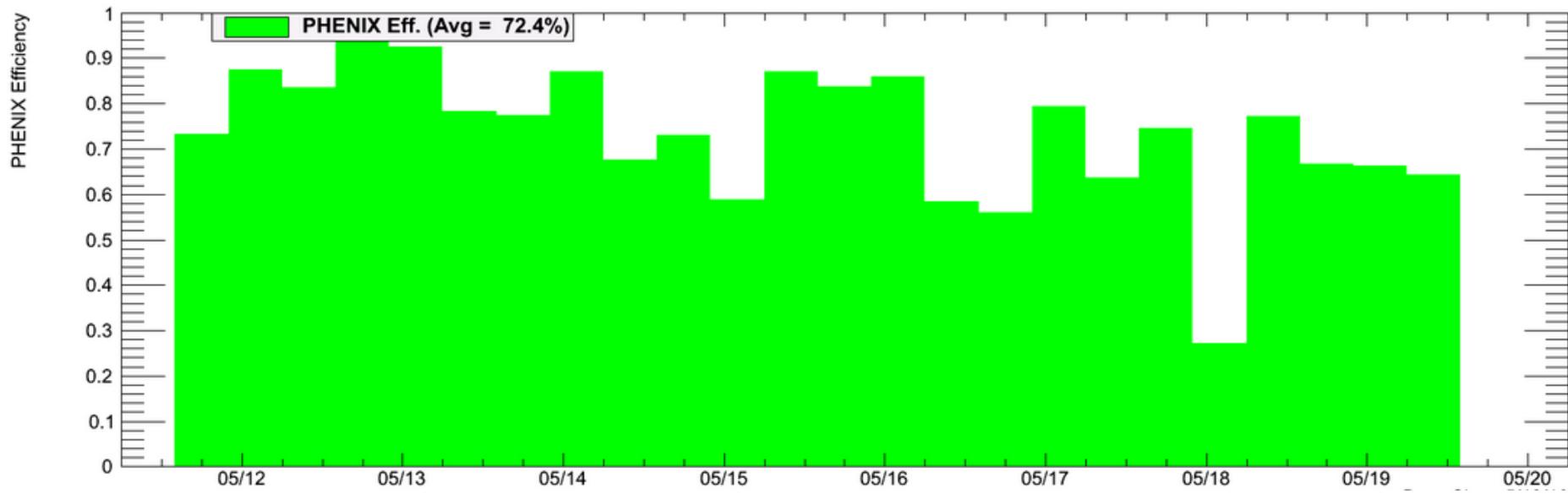
« Compatible with the error bars »

Or: 5% at the end, is only 5%

2016 200 GeV dAu



PHENIX Efficiency vs Day

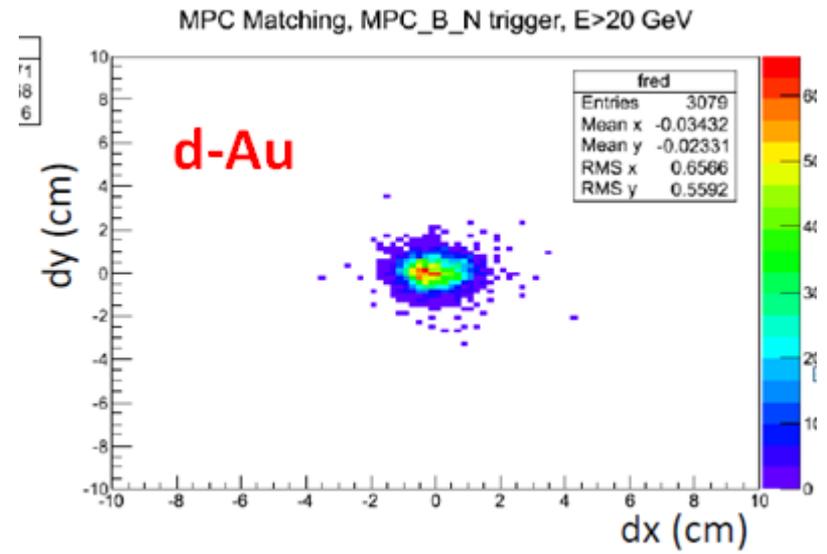
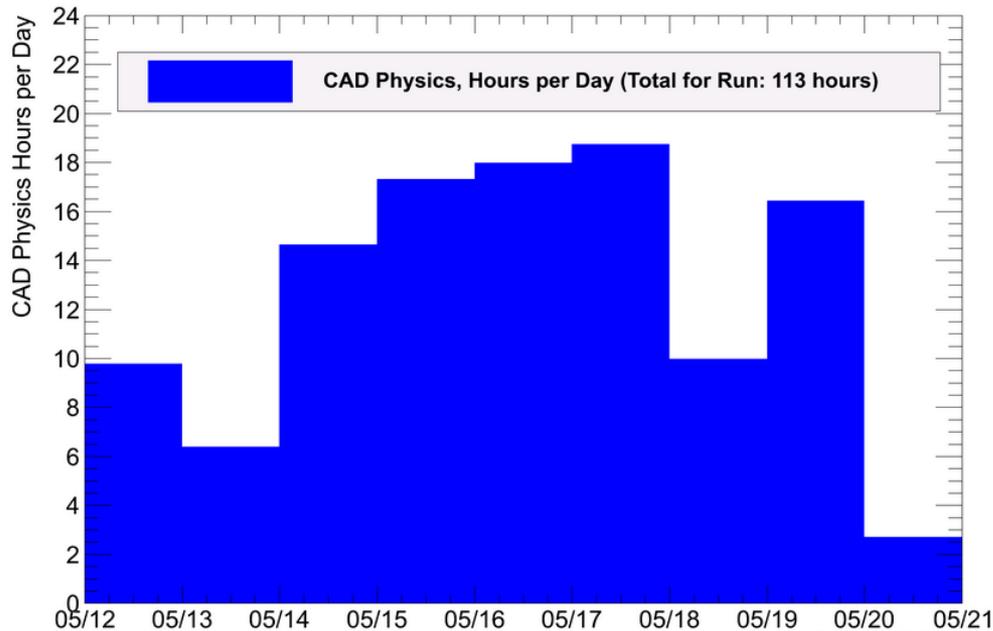


d-Au 200 GeV

- A great success, above or very close to the goals
- Very efficient organisation of the calendar
- Also on the detector side, and with MPC-EX

CAD Physics Hrs/Day vs Day

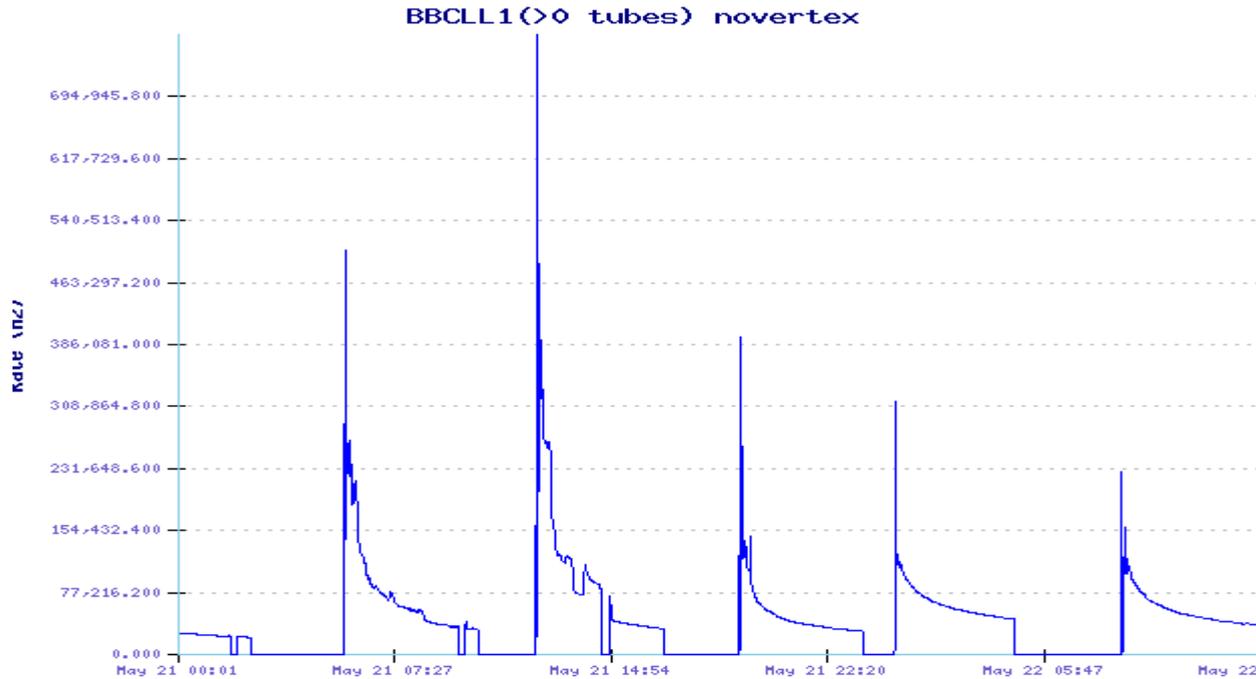
Fri May 20 09:00:19



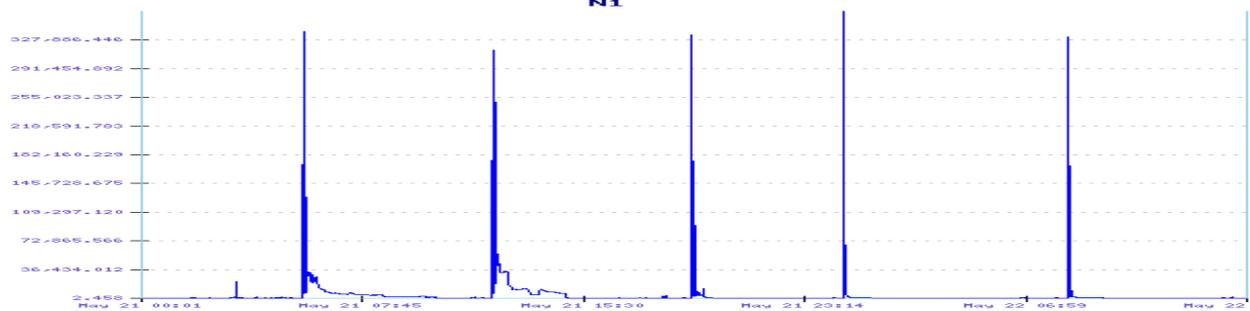
d-Au 62 GeV

- Very good start last Friday: collisions for tuning detector on the evening, taking physics runs at noon

220KHz Rates were looking great



At the beginning

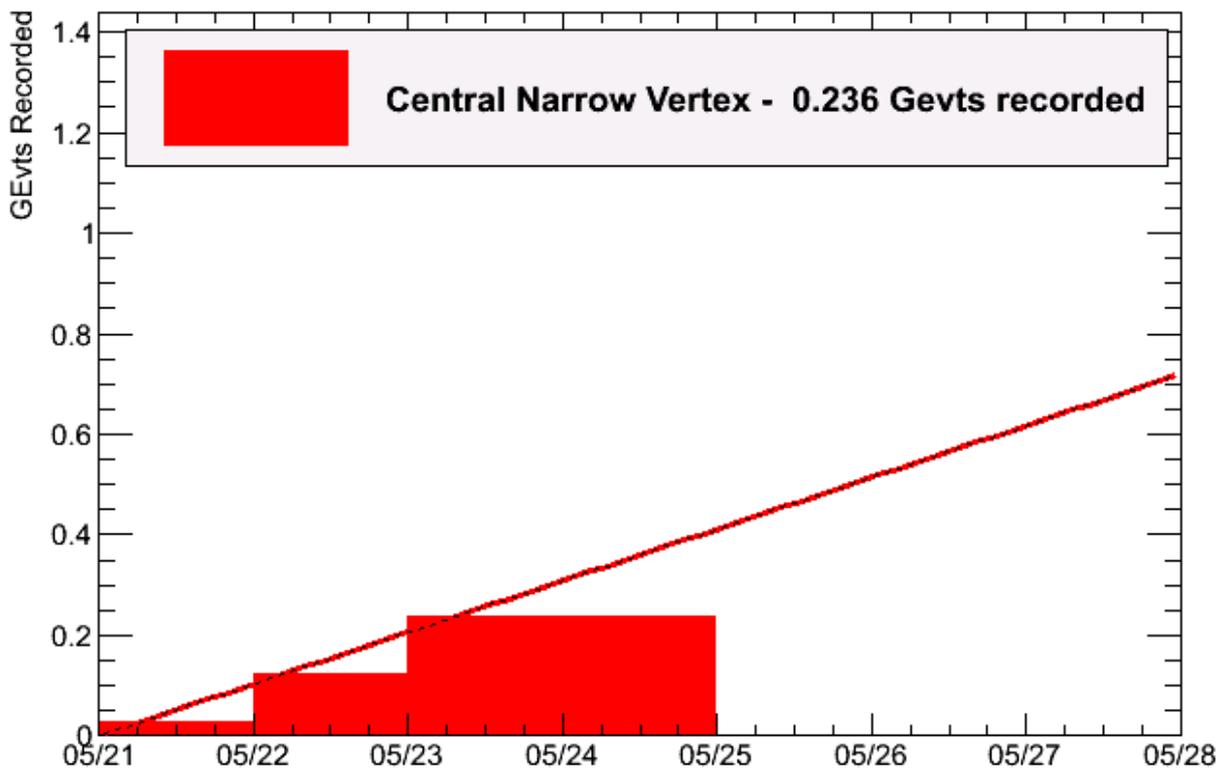


But there was a background

PHENIX GEvts vs Day

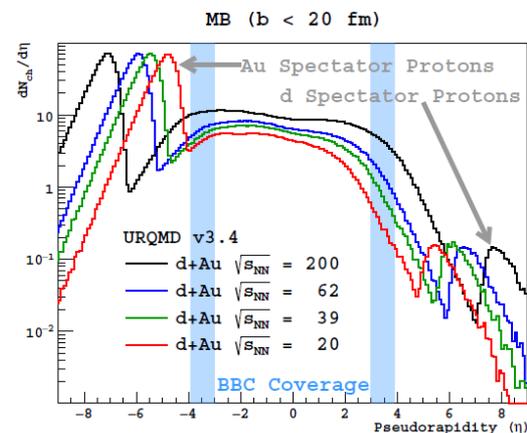
Tue May 24 00:00:08 :

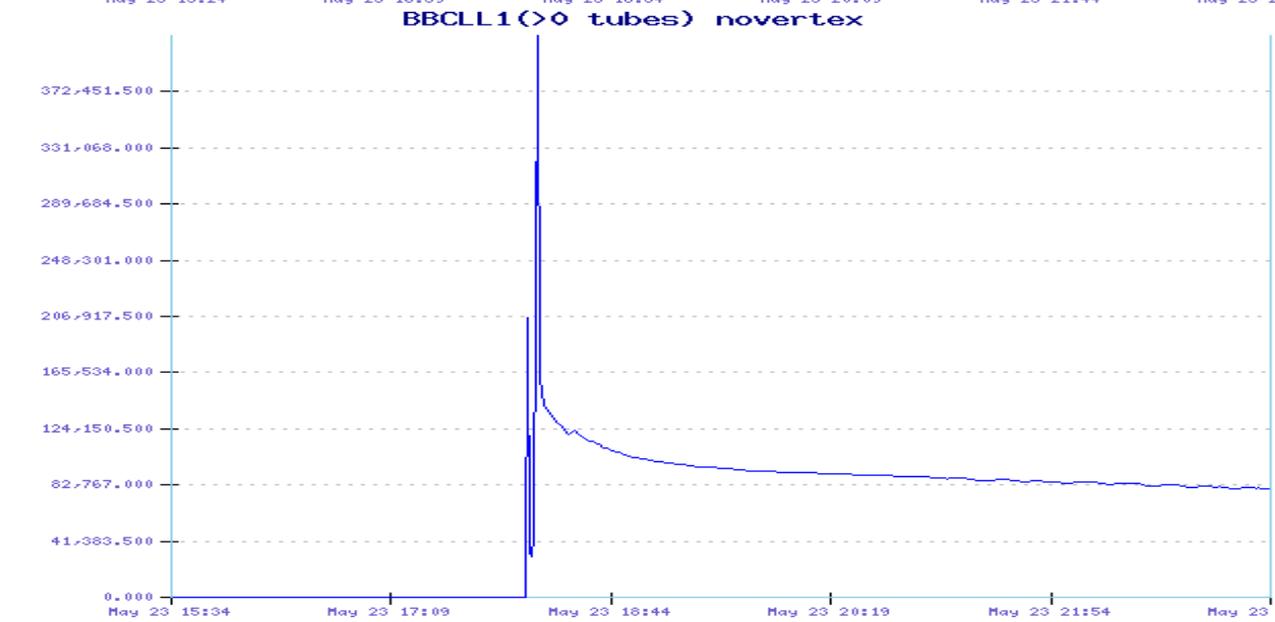
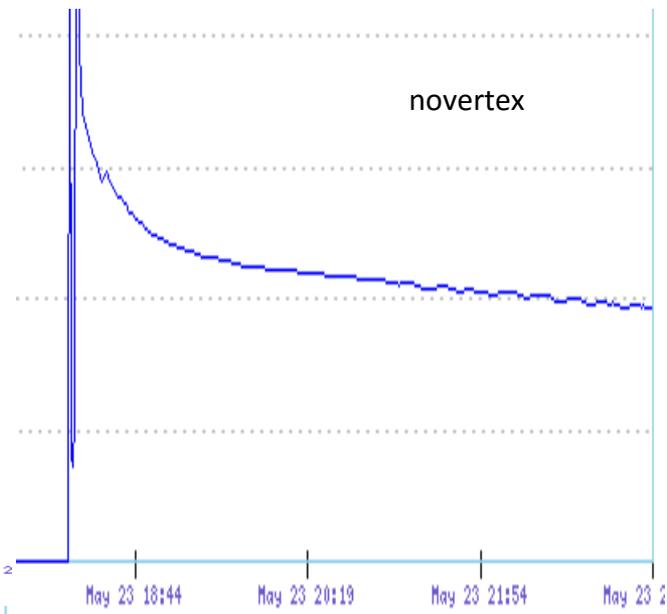
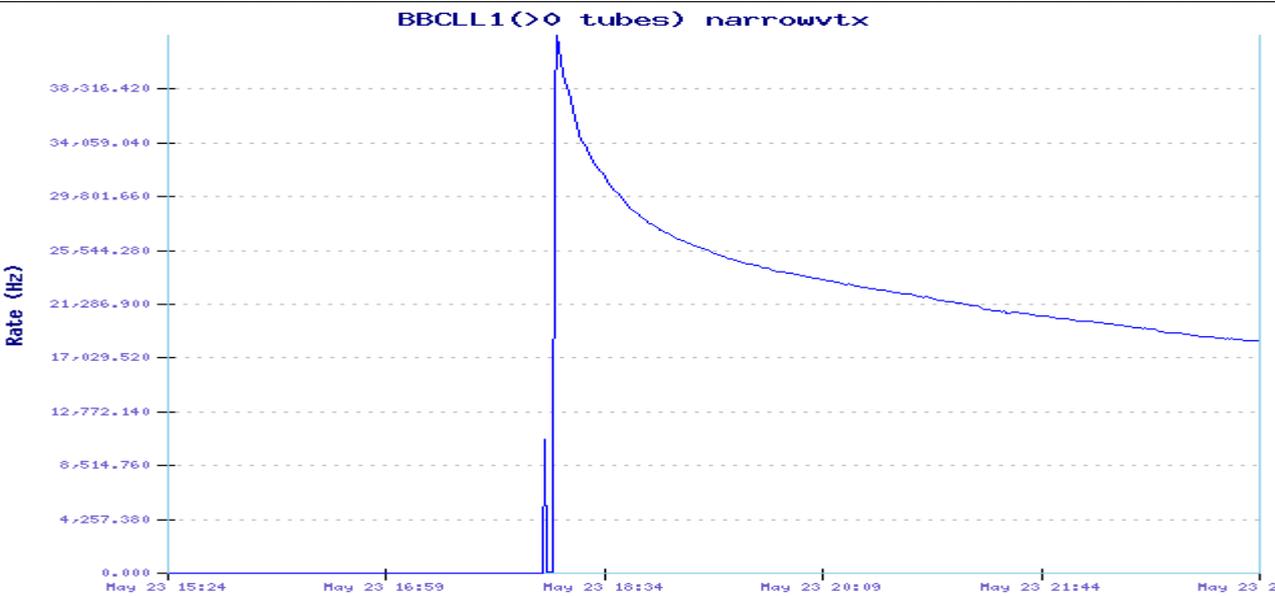
Goal max : 320M narrowvertex and 5%centrality
 -> **740M narrowvertex and 10% centrality**



~On tracks for the goal ?

With the decrease of multiplicity, the centrality domain had to be widened in order to record all the 5% centralities, and the rates allow to do it.



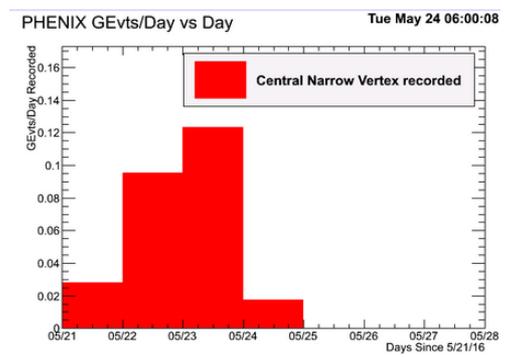


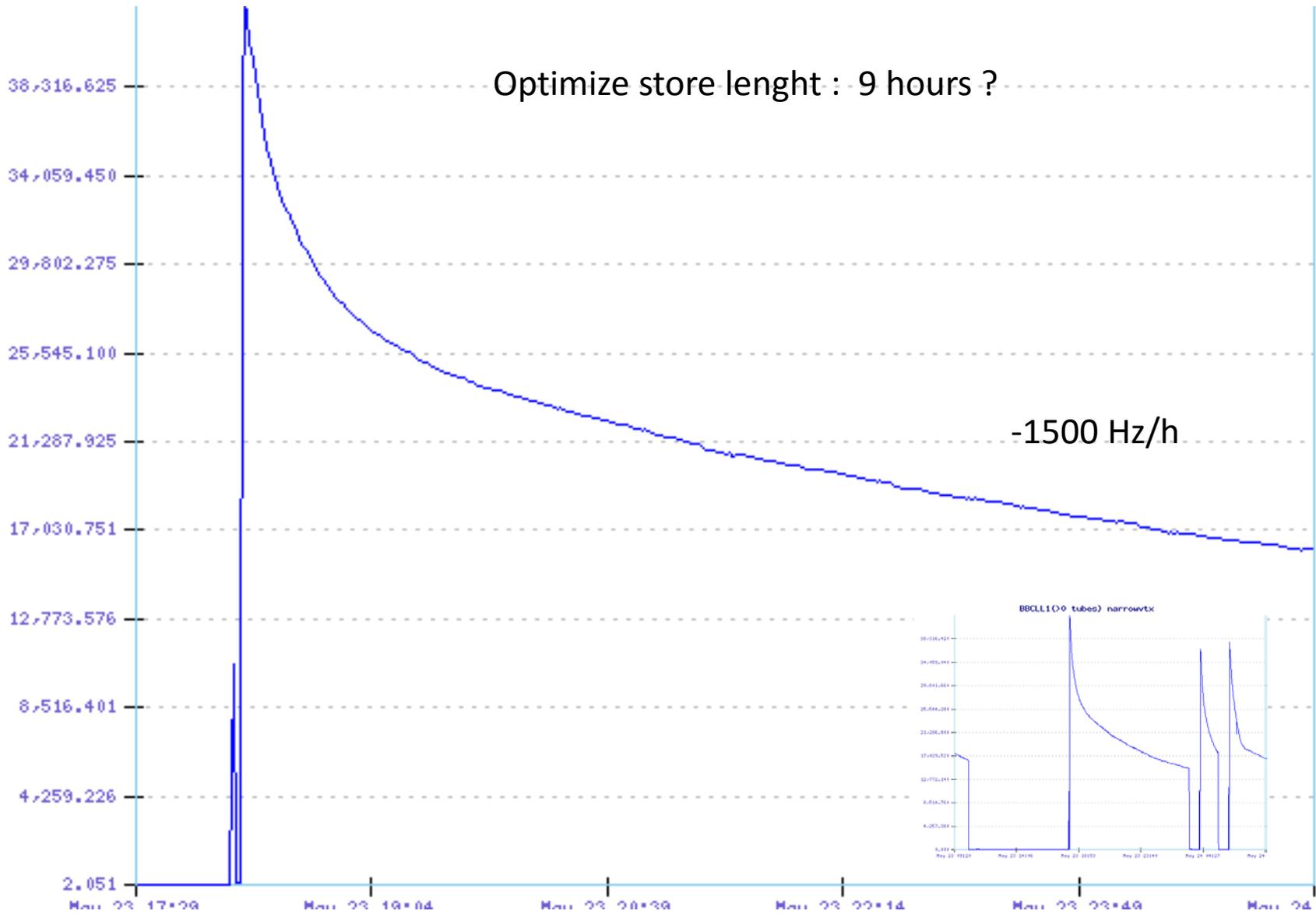
Average 10%
narrowvertex: 2KHz

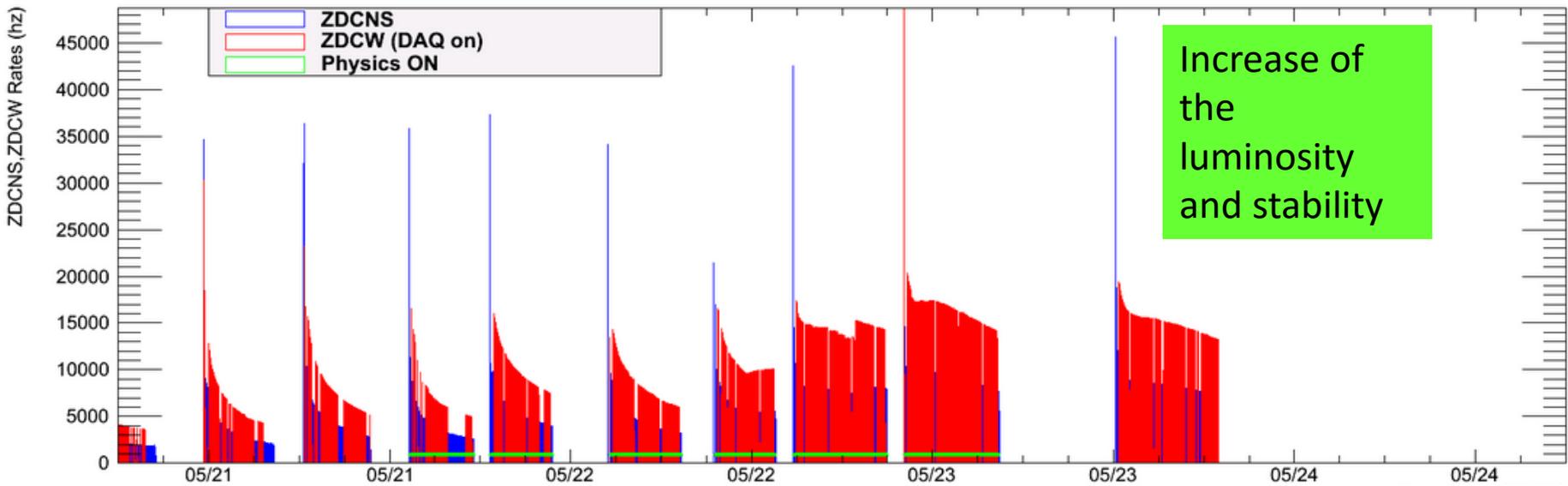
30Mevts per store 6h
100M per day

05/23/2016

CAD time meeting: PHENIX status

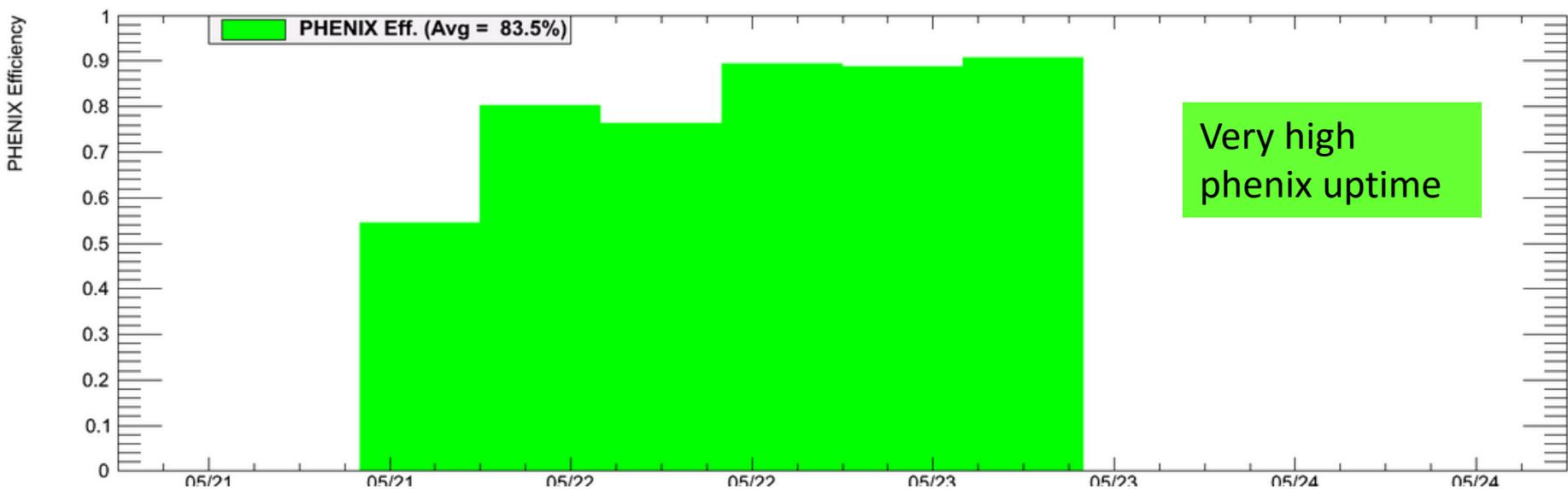




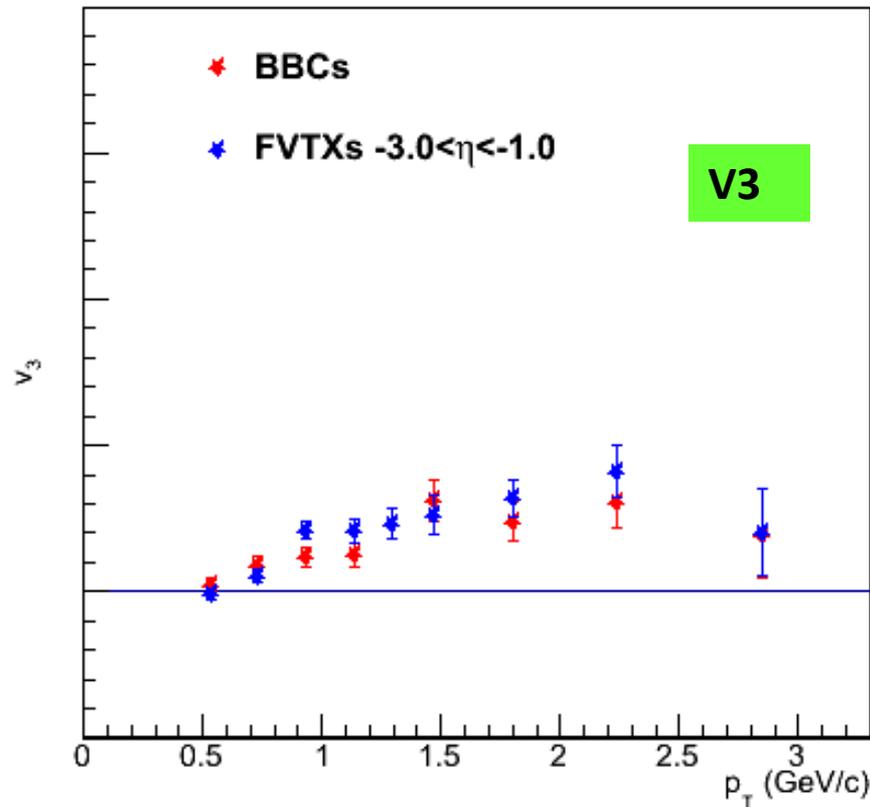
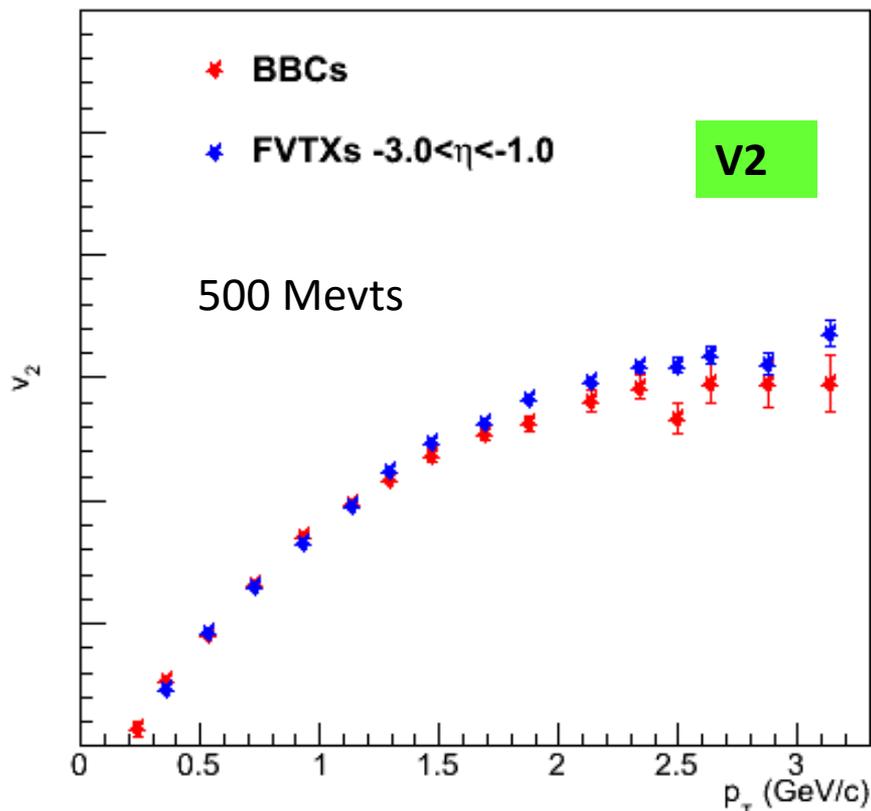


PHENIX Efficiency vs Day

Tue May 24



Flash look at d-Au 200 last week's datas



Just a hint on the possible orders of magnitudes.

FVTX EP calibration ongoing; one layer only used for now

-> finite v_3 seen at 200 GeV, improvements expected (statistics, calibrations)

v_3 may be accessible at 62 GeV, but needs statistics

NEW (for 20 GeV) FVTX TRIGGER NEEDS STATISTIC TOO

Summary: **it is going very well**

but slightly below goal

- d-Au 200: great success
 - d-Au 62 GeV
 - Very good schedule of the preparation phase
 - High intensity in rings, quite flat stores
 - Goal ~on tracks but slightly below
 - V3 d-Au 200 flash orders of magnitude: suggest higher statistic for ensuring 62 GeV measurement,
- > continue up to Monday (+1.5-2 day) with this excellent beam , and 20 GeV trigger added.