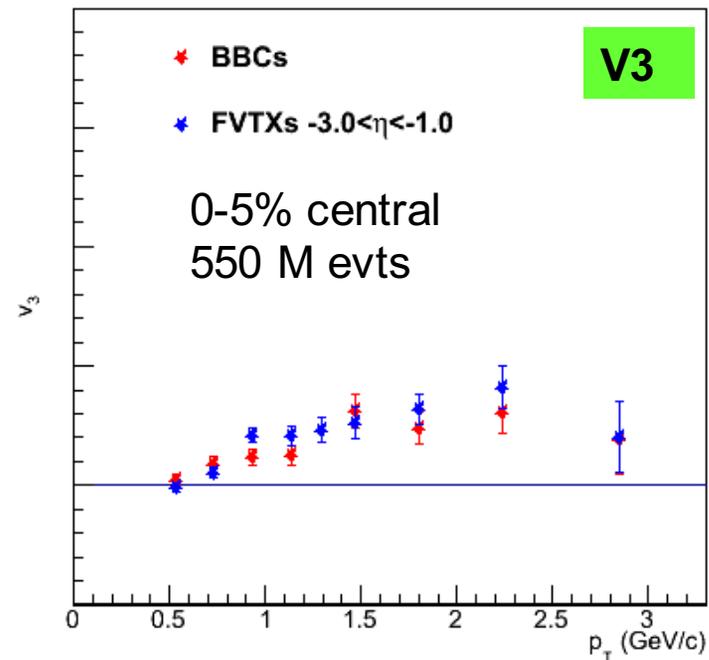
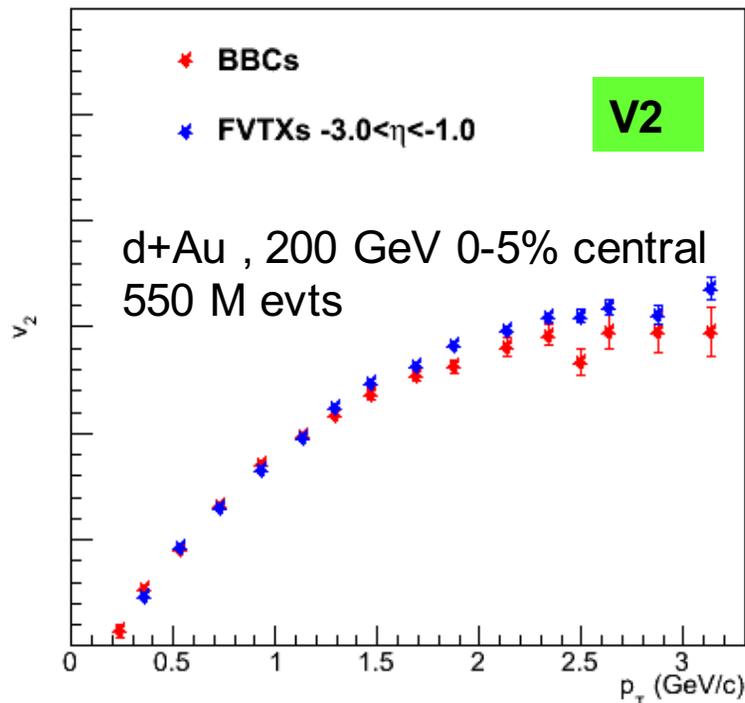


d+Au BES

Switch from 62 to 20 GeV

- When to switch from 62 GeV to 20 GeV ?
 - we propose a switch on Monday; (nominally - Friday)
 - 2 days gained in switch from 200 GeV to 62 GeV: how to use them ?
 - 62 GeV could use the additional statistics
 - New triggers enabled last night
 - Insights from 200 GeV fast analysis

Very first look at the 200 GeV data



- Fast production carried out at the counting house; 780 M – central events (0-5%) narrow vertex; 550 M analyzed
- v_2 measurement in hand – as expected from Run 8
- First hints of finite v_3 in d+Au at 200 GeV!
 - EP calibrations ongoing; more statistics is also available
 - Based on model predictions, expectation for similar signal size for v_3 at 62 GeV
 - EP resolution would be worse (about a factor of 2) due to lower multiplicity

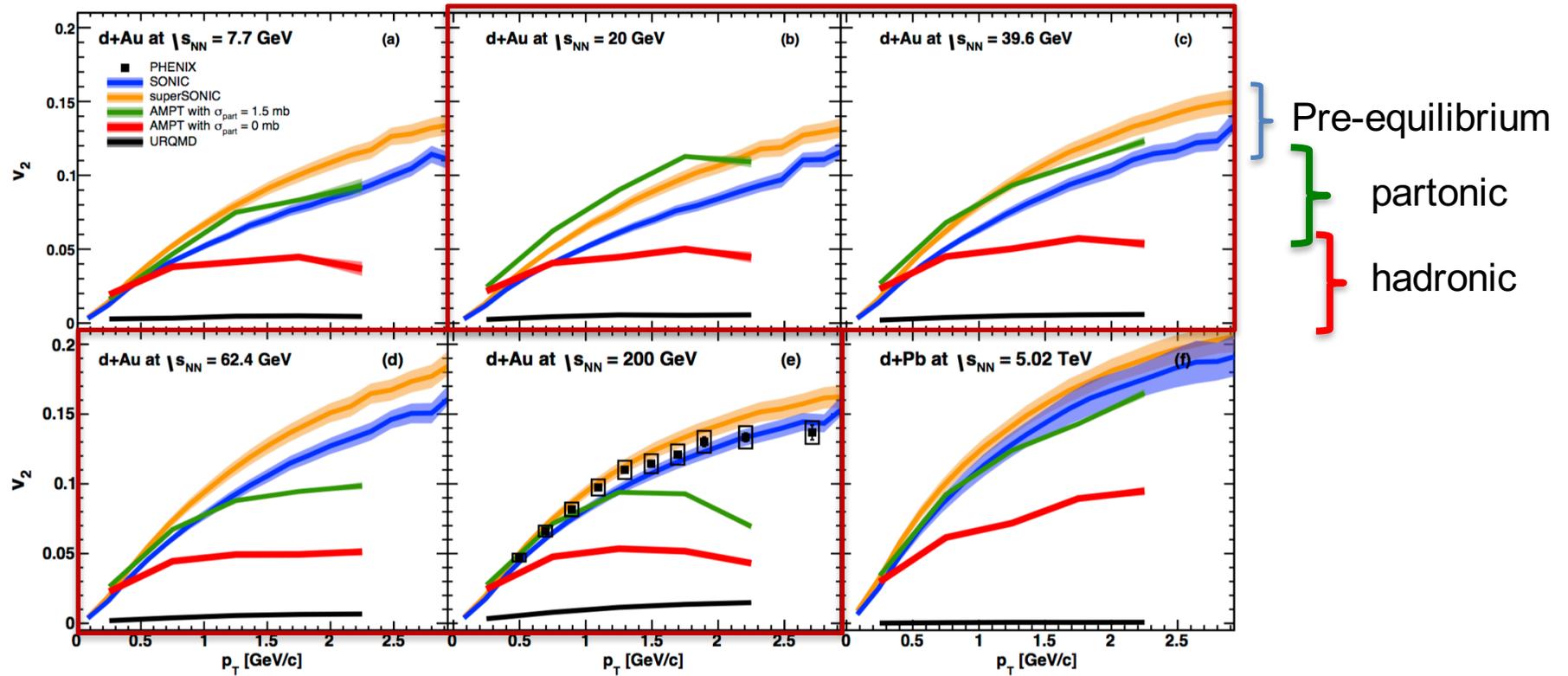
Prospects for 62 GeV measurements

- Presently collecting about 50 M evts/day in 0-5% narrow vertex trigger; about 100 M events already collected with this trigger
- Additional triggers implemented last night
 - important for systematic checks at 62 GeV
 - important for the lower energy running
 - We need a significant data set with these triggers
- If run ends on Friday, we'll have about 300 M events with the main trigger
- Extending the 62 GeV running through the weekend would give us about 400 M events and a v_3 measurement with comparable precision to the very preliminary plot on s.2

BACKUP

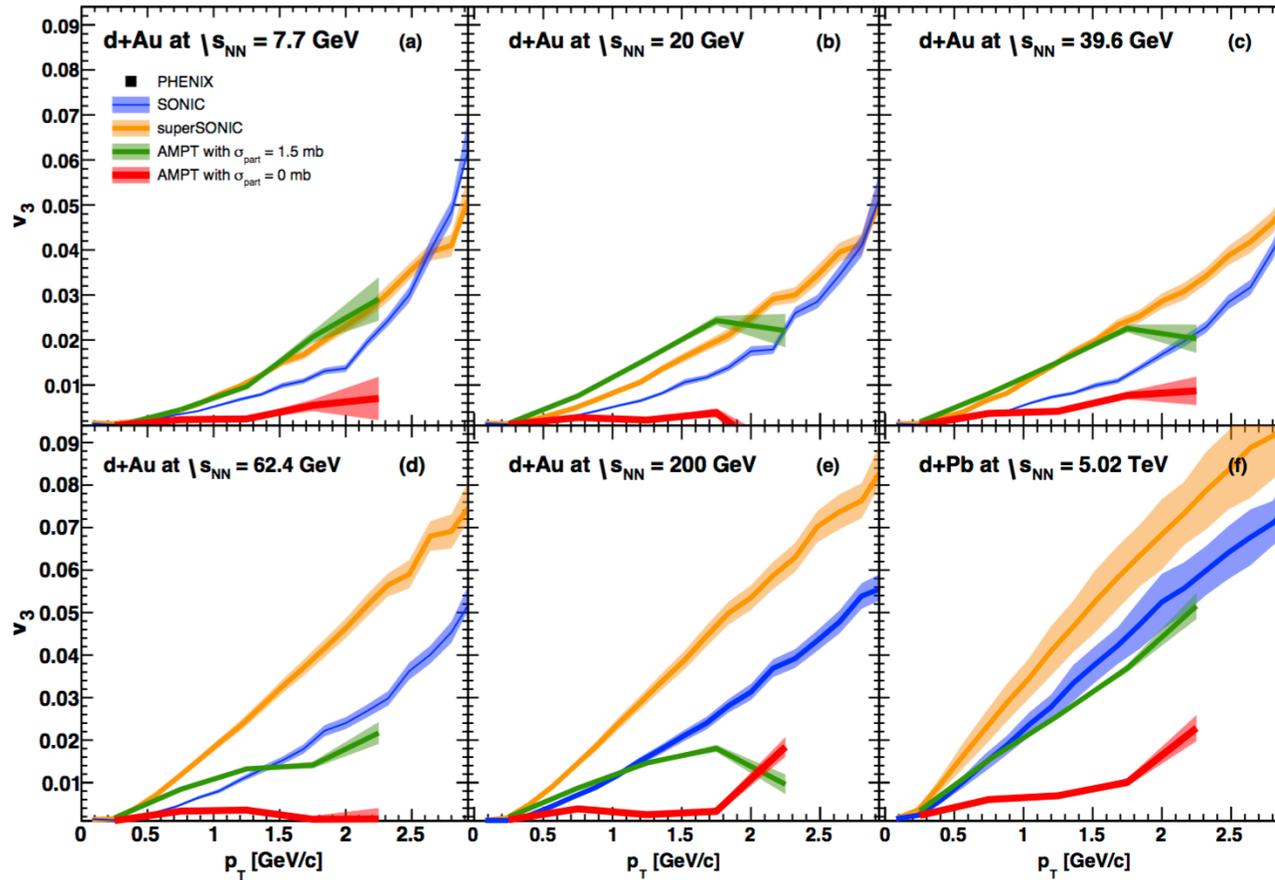
Model predictions for v_2

arXiv:1512.06949 J.D. Orjuela Koop, R. Belmont, P. Yin, J.L. Nagle



Model predictions for v_3

arXiv:1512.06949 J.D. Orjuela Koop, R. Belmont, P. Yin, J.L. Nagle



Projected EP resolution in BES

He3 +Au at 200 GeV: FVTX crucial for v_3 measurement

TABLE II. The resolution of n th-order event-plane angles measured by the BBC-S and FVTX-S detectors.

Subsystem	Res(Ψ_2^{Obs})	Res(Ψ_3^{Obs})
BBC-S ($-3.9 < \eta < -3.0$)	0.110	0.034
FVTX-S ($-2.5 < \eta < -1.5$)	0.232	0.052
FVTX-S ($-3.0 < \eta < -1.0$)	0.274	0.070

energy	Res (Ψ_2)	Res (Ψ_3)
200 GeV	0.249	0.070
62 GeV	0.187	0.041
39 GeV	0.136	0.025
20 GeV	0.093	0.022

Both resolution and statistics improved at 200 GeV compared to Run 8 dAu:
BBC -> FVTX; 80 M evts -> 1.6 B events