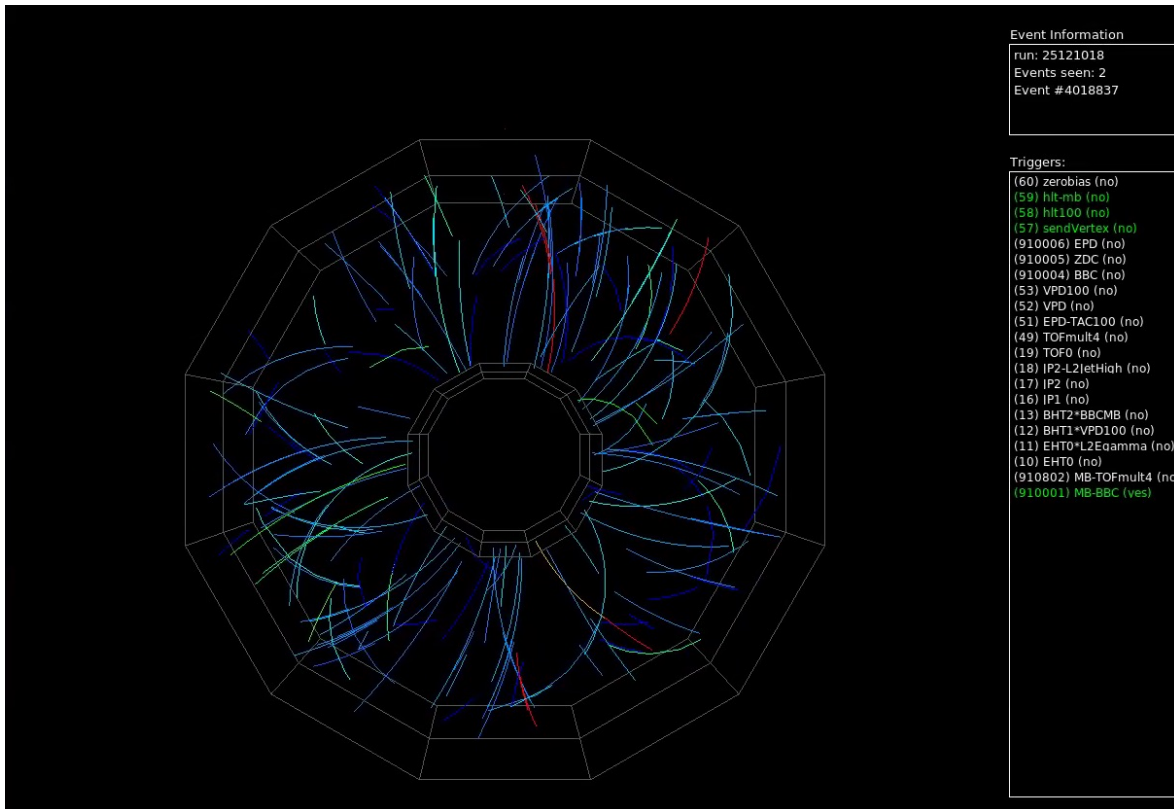


STAR status: we started to take physics data today



Kong Tu → Zhangbu Xu
(Period Coordinator changed today)
April 30, 2024

A lot has happened between Saturday morning till this morning

- RHIC delivered collisions (THANKS!) sometime ~ Saturday midnight. We started our standard procedure to calibrate/**commission our detectors**:
 - Set the global timing.
 - Tune the trigger detectors (ZDC, BBC, EPD, VPD).
 - Calorimeter scanning
 - etc.

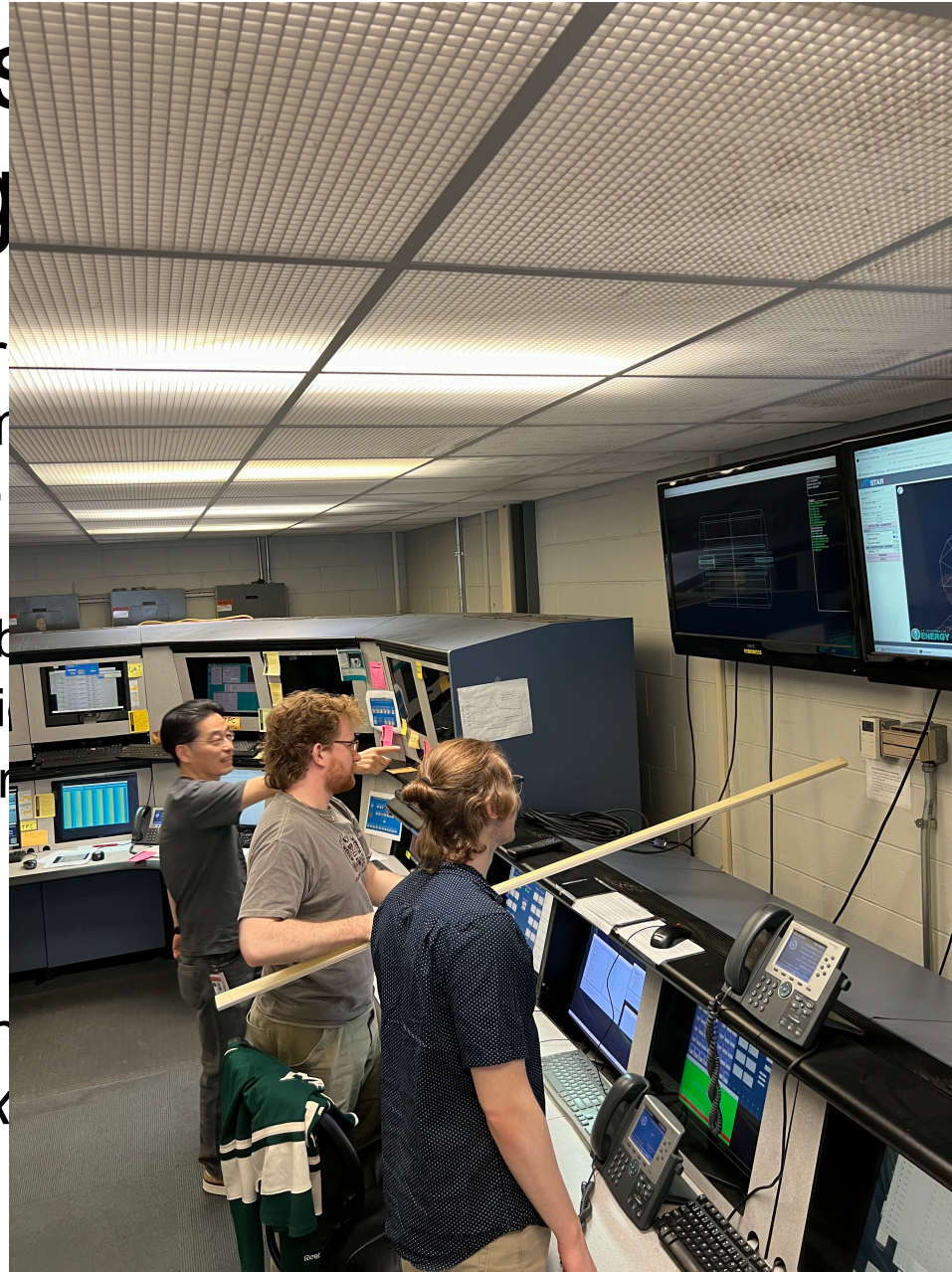
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 - etc.
- Many new shift crews are their first-time taking shifts. *Old experiment with many new blood*



A lot has morning

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~ Saturday m
procedure to
detectors:
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 - Tune the tri
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shifts. *Old ex*

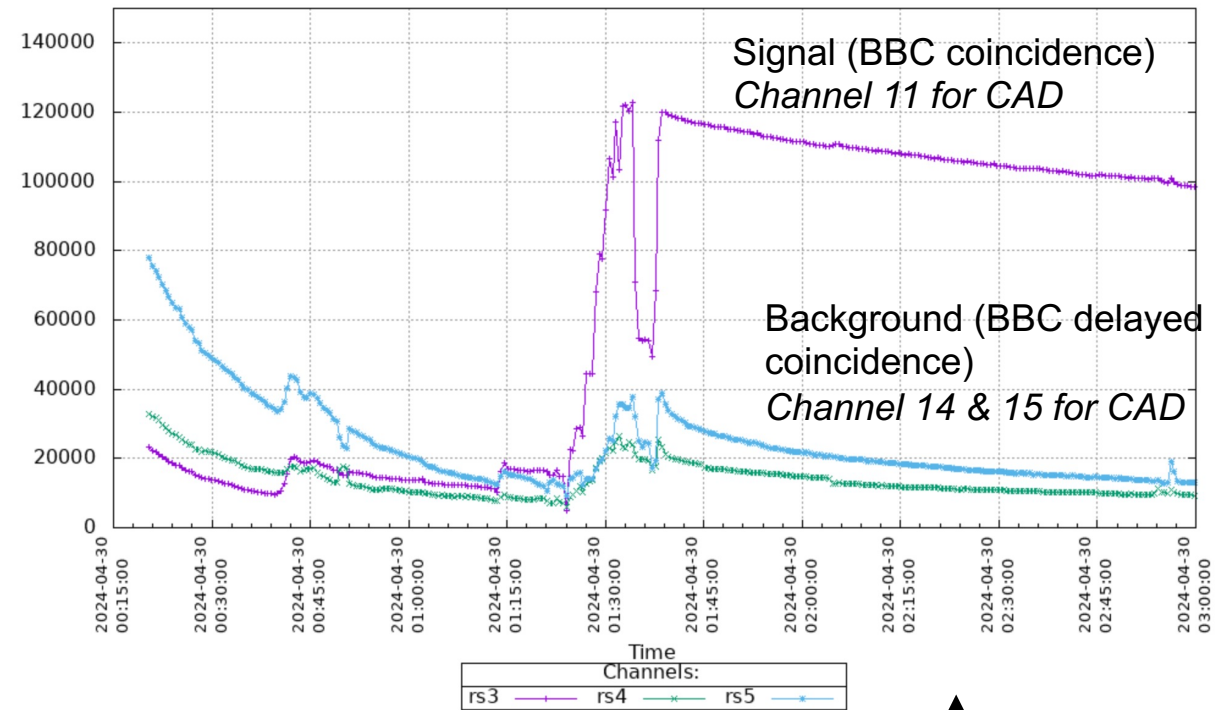


en Saturday



Physics running with a 2-week low lumi program

- We had planned, together with sPHENIX, to keep the luminosity low at the beginning of this Run; STAR will take low lumi data for the high-multiplicity physics program, while sPHENIX commissions the detector.
- Nevertheless, from last night, we started with **1mrad crossing angle and leveling**.
- Background levels were at the same or higher than as the signal level due to the leveling. We asked to revert it back.



We did finalize all our calibration/commissioning during this period.

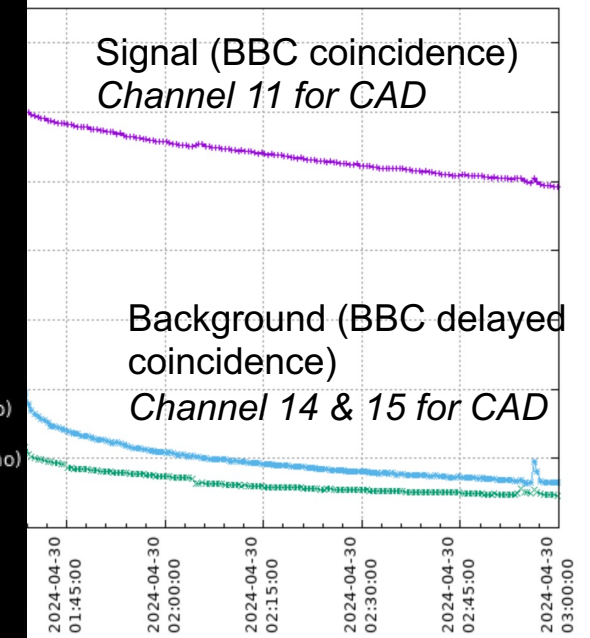
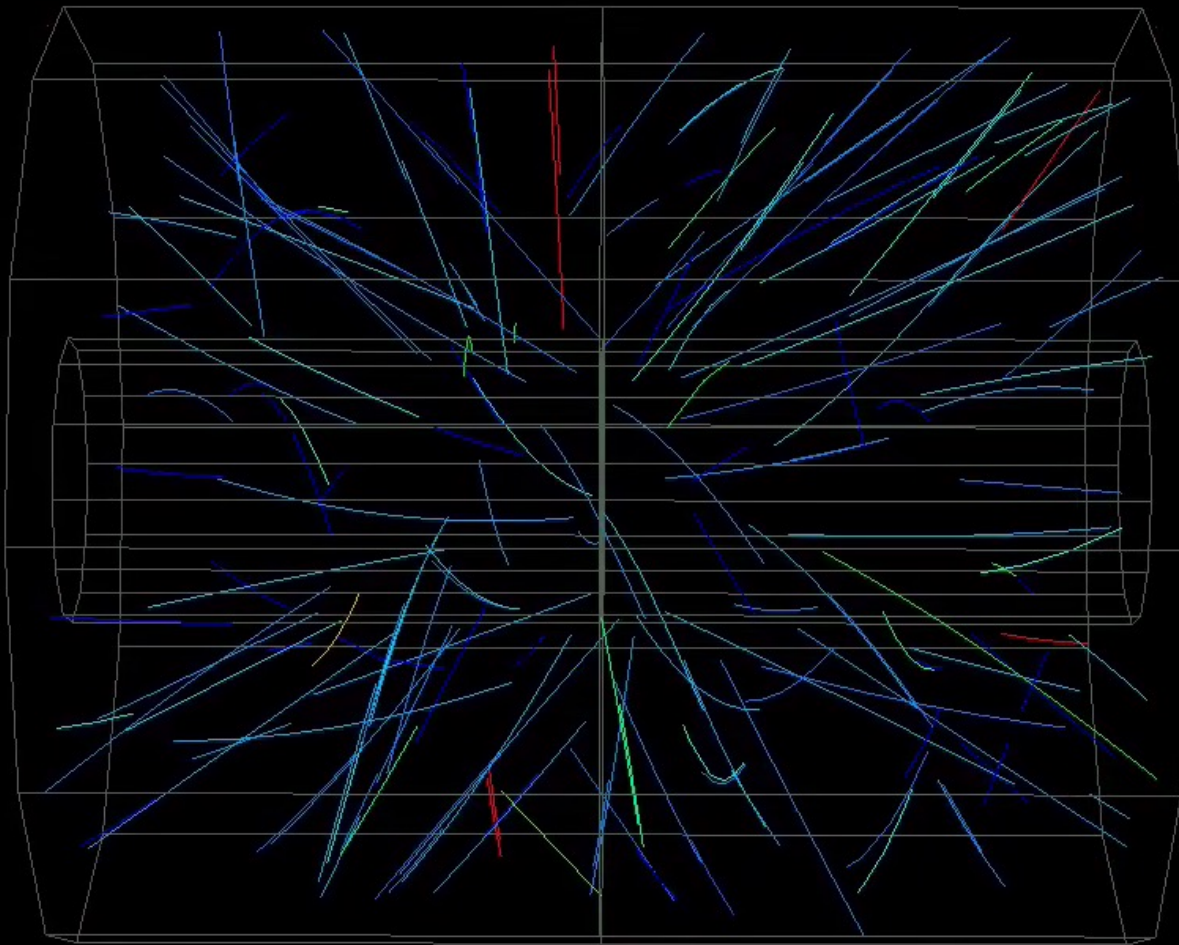
Low lumi

Event Information

run: 25121018
Events seen: 2
Event #4018837

Triggers:

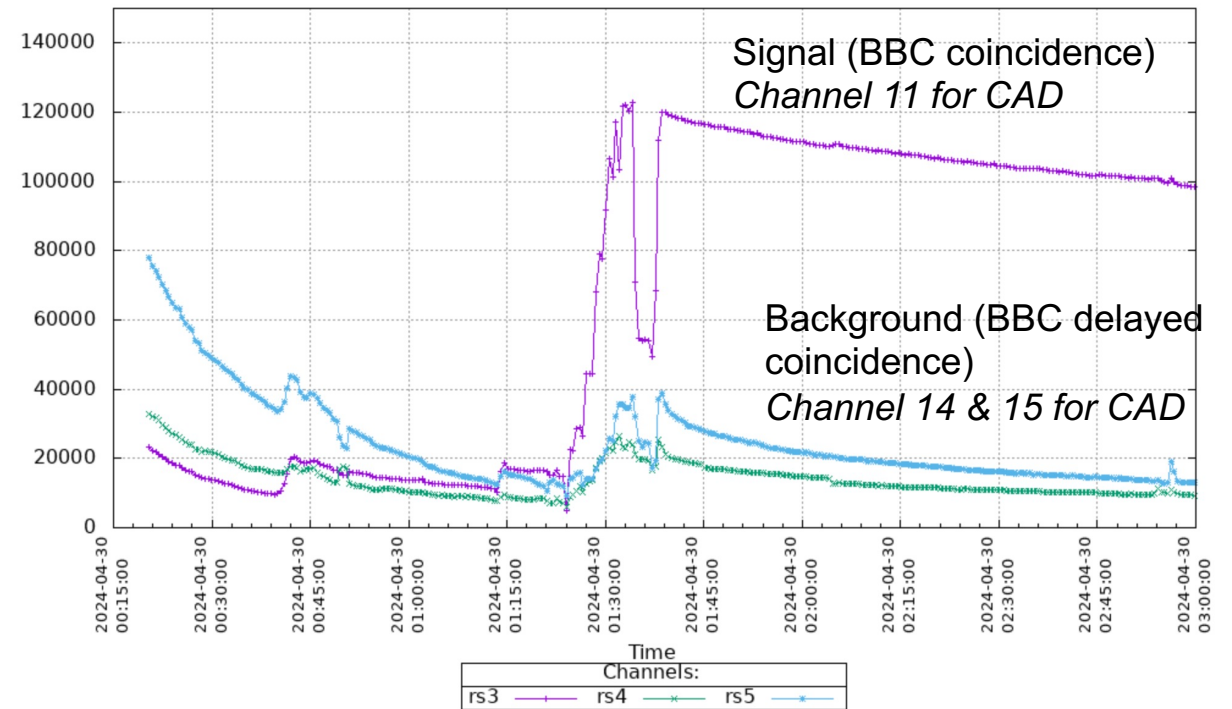
(60) zerobias (no)
(59) hlt-mb (no)
(58) hlt100 (no)
(57) sendVertex (no)
(910006) EPD (no)
(910005) ZDC (no)
(910004) BBC (no)
(53) VPD100 (no)
(52) VPD (no)
(51) EPD-TAC100 (no)
(49) TOFmult4 (no)
(19) TOF0 (no)
(18) IP2-L2JetHigh (no)
(17) IP2 (no)
(16) IP1 (no)
(13) BHT2*BBCMB (no)
(12) BHT1*VPD100 (no)
(11) EHT0*L2Egamma (no)
(10) EHT0 (no)
(910802) MB-TOFmult4 (no)
(910001) MB-BBC (yes)



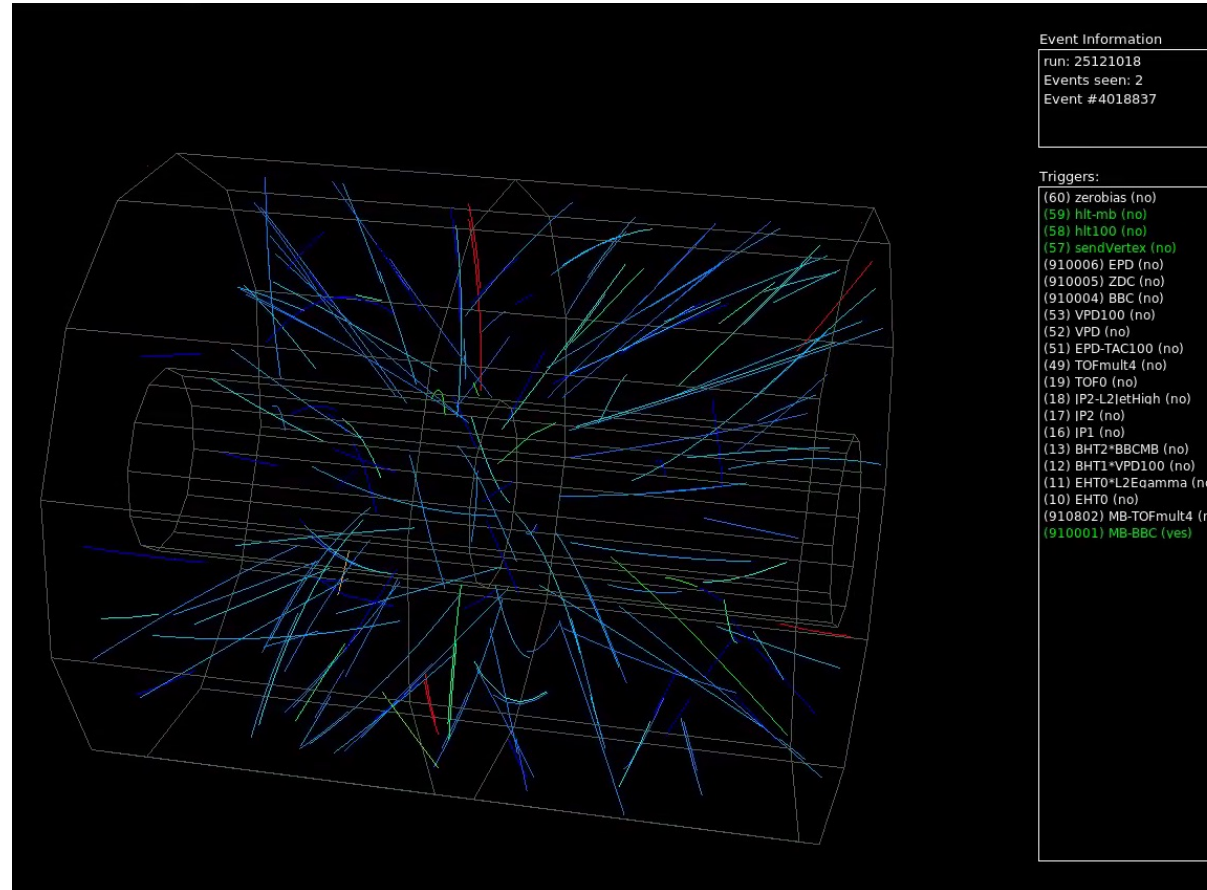
...ing during this period.

Physics running with a 2-week low lumi program

- We had planned, together with sPHENIX, to keep the luminosity low at the beginning of this Run; STAR will take low lumi data for the high-multiplicity physics program, while sPHENIX commissions the detector.
- Nevertheless, from last night, we started with **1mrad crossing angle and leveling**.
- Background levels were at the same or higher than as the signal level due to the leveling. We asked to revert it back.
- **This is an issue for our low lumi program. We plan to i) coordinate with CAD and sPHENIX ii) think of better ways to trigger, at the same time.**



Summary: STAR has started physics data taking for Run 24!



Let's take data!