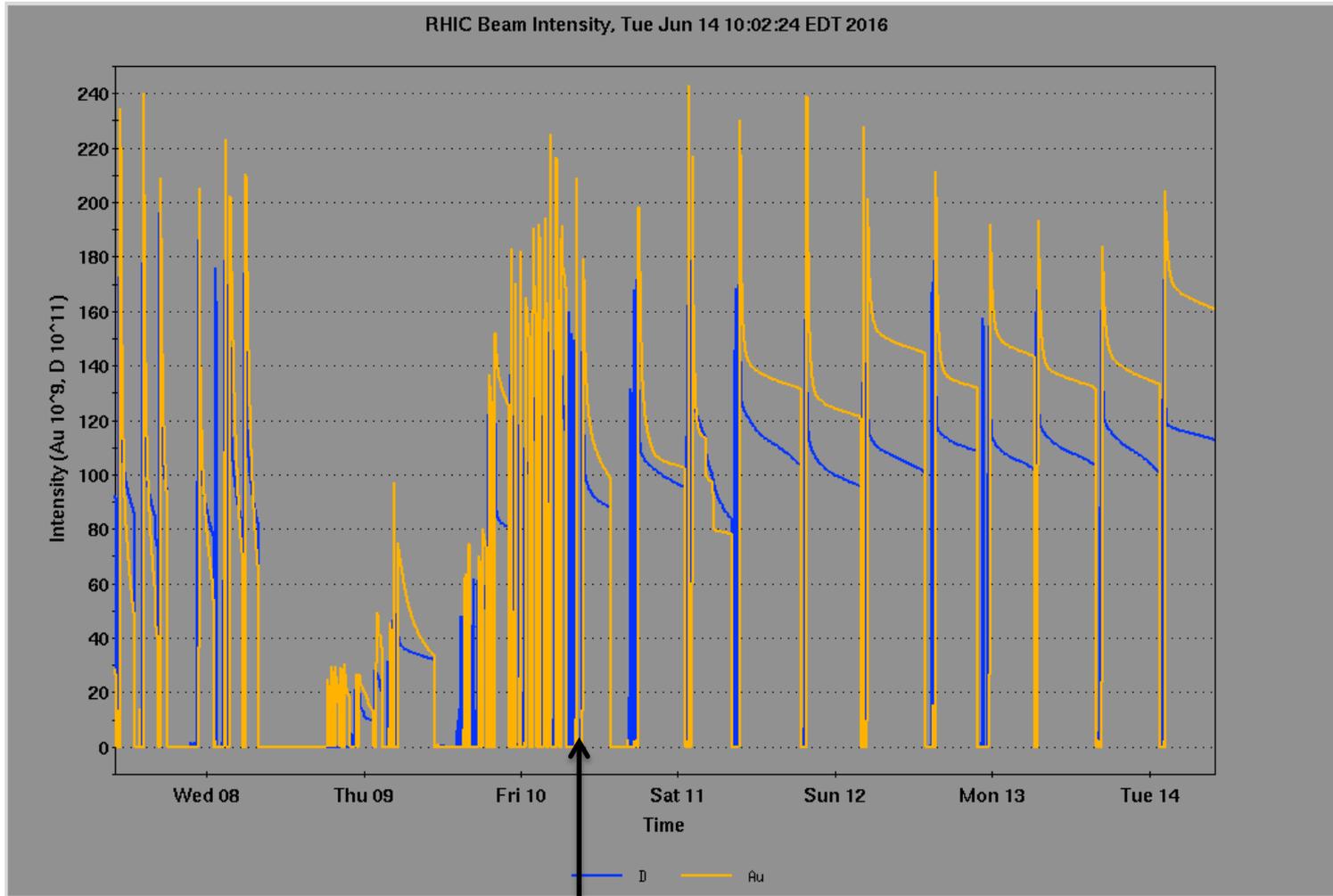


Time Meeting

June 14, 2016.

W. Christie



“Physics” running declared for 39 GeV dAu Run at 10 am on Friday June 10th.

Run 16 plan based on 23.5 weeks cryo operation

and Fischer et.al. RHIC Collider Projections (FY 2016 – FY 2022), 19 April 2015

Today, June 15th

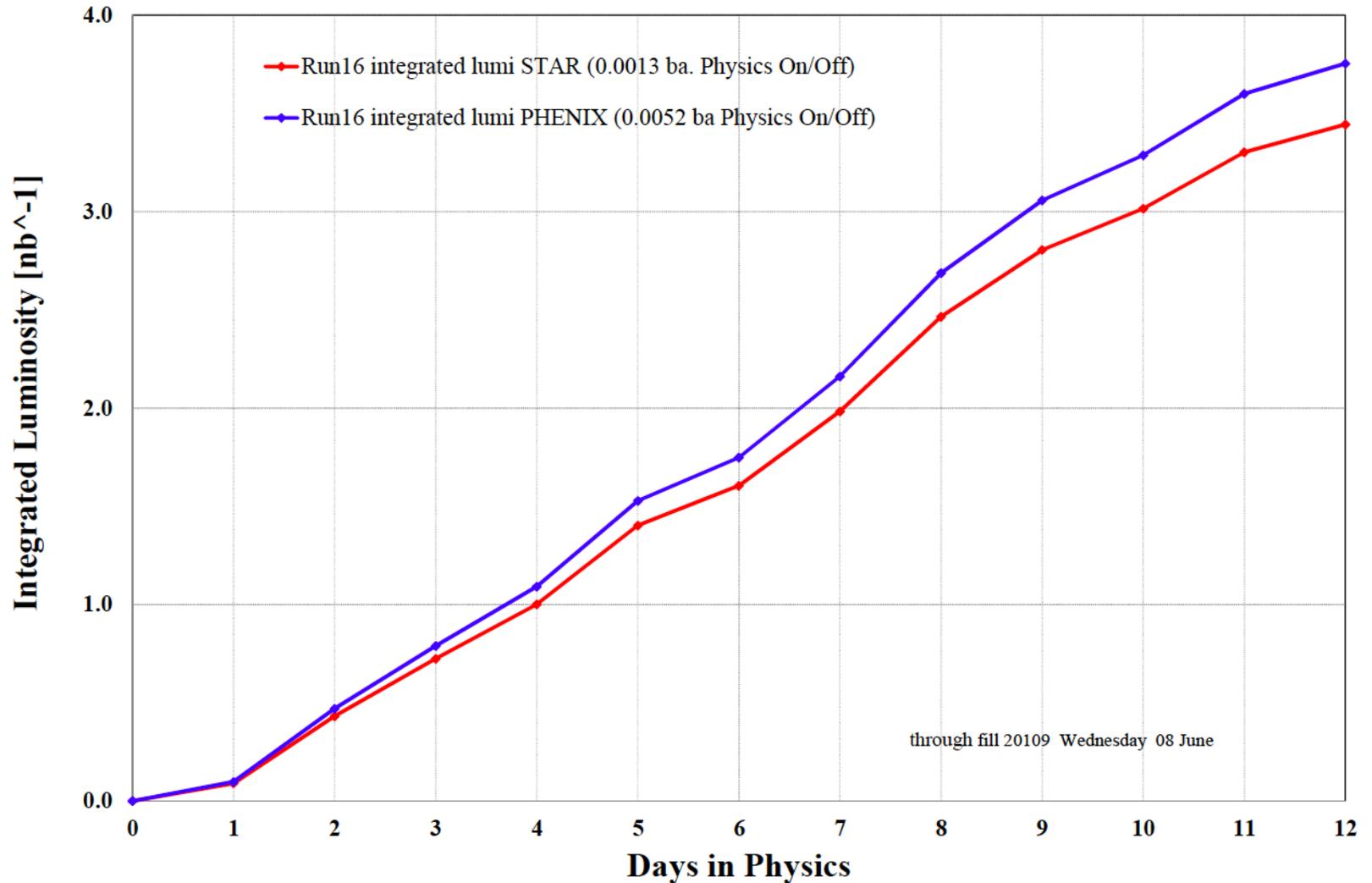
- 19 Jan, Begin cool-down to 4.5K
- 25 Jan, Beam in Yellow
- ~~22~~ 26 Jan, Beam in Blue
- ~~29 Jan~~, Feb 3, First Collisions
- ~~5~~ 7 Feb, Begin 10 week **$v_s=200$ GeV/n AuAu** physics run
- 7 am March 18th, RHIC Operations halted for Blue ring Diode issue
- 7 pm April 6th, RHIC Operations resumed (19.5 days offline)
- Decision made to add 19.5 days to the AuAu running to account for the Diode related down time
- 9 May, End 10 week (+ 2 days) $v_s=200$ GeV/n AuAu physics run
- 12 May, Begin 1 week **$v_s=200$ GeV/n dAu** physics run
- 20 May, End ~ 1 week $v_s=200$ GeV/n dAu physics run
- 21 May, Begin 1 week **$v_s=62$ GeV/n dAu** physics run
- 27 May, End ~ 1 week $v_s=62$ GeV/n dAu physics run
- 28 May, Begin 1.5 week **$v_s=19.6$ GeV/n dAu** physics run
- 8 June, End 1.5 week $v_s=19.6$ GeV/n dAu physics run
- 10 June, Begin 1 week **$v_s=39$ GeV/n dAu** physics run
- 17 June, End 1 week $v_s=39$ GeV/n dAu physics run
- 19 June, Begin ~ 7 day **Return to 200 GeV/n AuAu** physics run
- 27 June, End of 200 GeV/n AuAu physics run
- 27 June, begin cryo warm-up
- 1 July, Cryo warm-up complete, 23.5 cryo weeks of operation

Schedule in Orange text not updated yet

See <http://www.rhichome.bnl.gov/AP/RHIC2016/> for the Run Coordinator's detailed plan

Run16 Delivered Luminosity

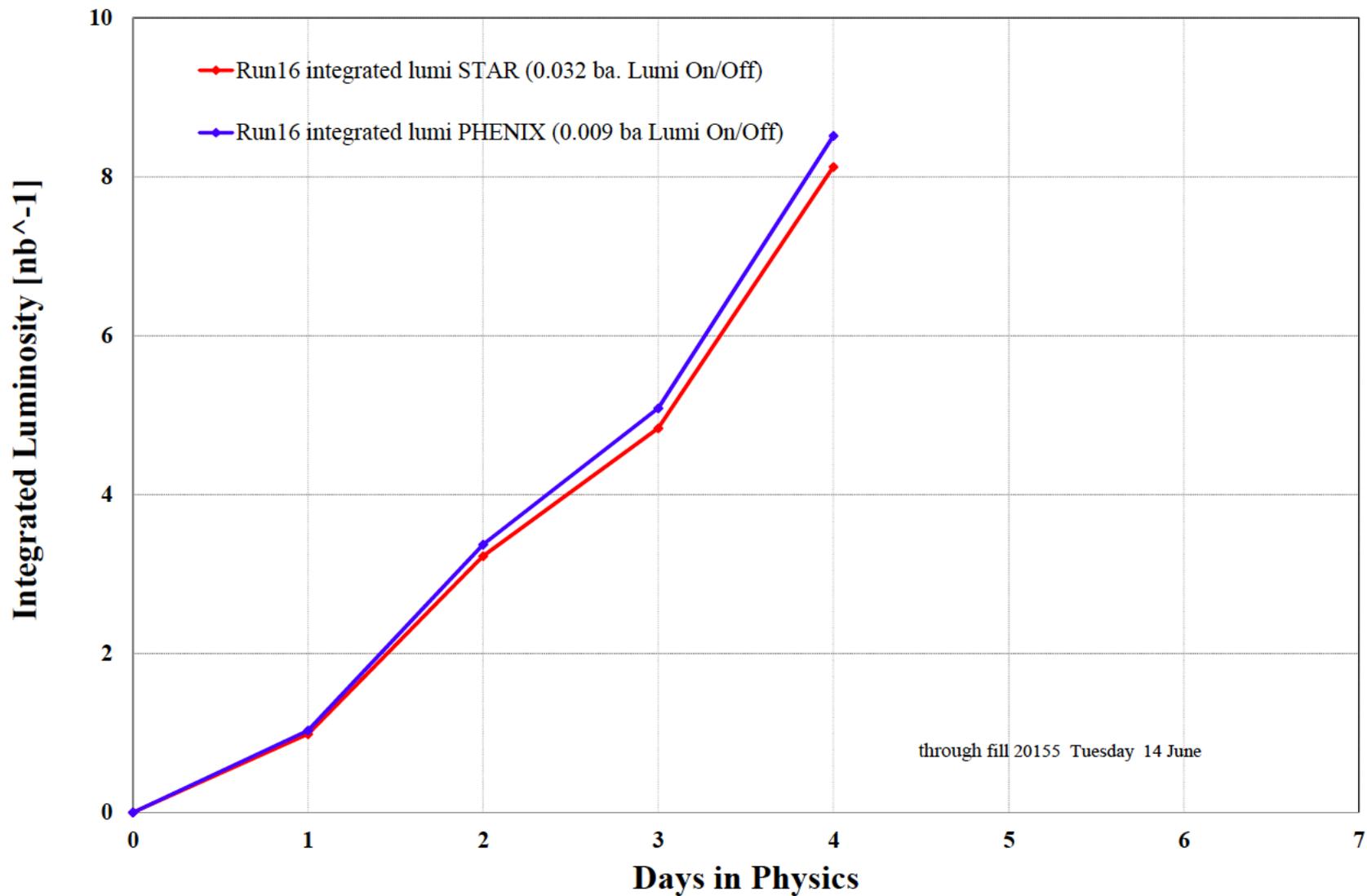
$d \times Au \quad \sqrt{s} = 19.6 \text{ GeV}$



Delivered Luminosity for 19.6 GeV dAu Run

Run16 Delivered Luminosity

$d \times Au \quad \sqrt{s} = 39 \text{ GeV}$



Draft Schedule for the Remainder of RHIC Run 16

- At the weekly RHIC Scheduling mtg on Monday afternoon, June 13th, we tried to gather all known requests/needs for time between now and the start of the Cryo warm up scheduled for 8 am on Monday June 27th.
- Non “Physics” time requests are:
 - 8 hrs for Diode testing (RHIC cold but no beam)
 - A 4 hr and 8 hr request for 56 MHz effort (RHIC cold but no beam)
 - CeC requests for:
 - 3 hrs on June 16th (in schedule as 1 to 3 hrs)
 - 6 hrs during Switchover Access (scheduled for June 17th)
 - 2 hrs on Monday June 20th for cathode swap
 - 6 hrs for dedicated running (RHIC cold but no beam, scheduled for June 22nd)
 - 1 hr access to change cathodes (scheduled for June 23rd)
 - 12 hrs of dedicated CeC running (RHIC cold, no beam, schedule for June 24th)
- This draft schedule calls for the one week of 39 GeV dAu running to end at 8:45 am on Friday June 17th (started 10 am Friday June 10th). PHENIX estimates that they'll be a bit over 80% of their 39 GeV goals at this point.
- As scheduled, this draft schedule would give the equivalent of about 7 days of Physics running for the 200 GeV AuAu program.

SCHEDULE FOR WEEK FROM MONDAY June 13th – MONDAY June 20th

- **Monday (June 13th):**
 - Physics running
- **Tuesday:**
 - Physics running all day (E6 in Booster repaired behind RHIC store)
- **Wednesday:**
 - Physics running until 7:45 am
 - APEX from 8 am to midnight
- **Thursday:**
 - Physics running until about 8 am
 - 1 to 3 hour access for CeC (Jet access in parallel)
 - Physics running rest of the day
- **Friday**
 - Physics running until 8:45 am
 - 6 to 8 hrs of Access (switchover plus 4 hrs of 56 Mhz request)
 - Start of commissioning for 200 GeV/n AuAu running
- **Saturday**
 - Estimate is that “Physics” running will be declared after ~24 hrs of commissioning
- **Sunday**
 - Physics running all day

SCHEDULE FOR WEEK FROM MONDAY June 20th – MONDAY June 27th

- **Monday (June 20th):**
 - Physics running
 - 2 hrs CeC access (swap cathode)
 - Physics running rest of day
- **Tuesday:**
 - Physics running all day
- **Wednesday:**
 - Physics running until 9:45 am
 - Dedicated CeC running (no beam in RHIC) from 10 am to 4 pm (some diode checking in parallel)
- **Thursday:**
 - Physics running essentially all day
 - 1 hour access for CeC to change cathodes
- **Friday**
 - Physics running until 7:45 am
 - 8 am to 8 pm, 12 hrs of dedicated CeC running (no beam in RHIC)
 - Diode checking and 56 MHz in parallel
 - Physics running rest of day
- **Saturday**
 - Physics running all day
- **Sunday**
 - Physics running all day
- **Monday (June 27th):**
 - Physics running until 7:45 am
 - **Beam Operations cease for Run 16. Cryo warm up begins**

Archive

PHENIX goals: 10 weeks, 1.8 nb^{-1} with 12 billion MB events recorded within $|z| < 10 \text{ cm}$ vertex, request dynamic β^* squeeze.

STAR goals: 13 weeks 10 nb^{-1} sampled for MTD and 2 billion MB events recorded within $|z| < 6 \text{ cm}$ for HFT

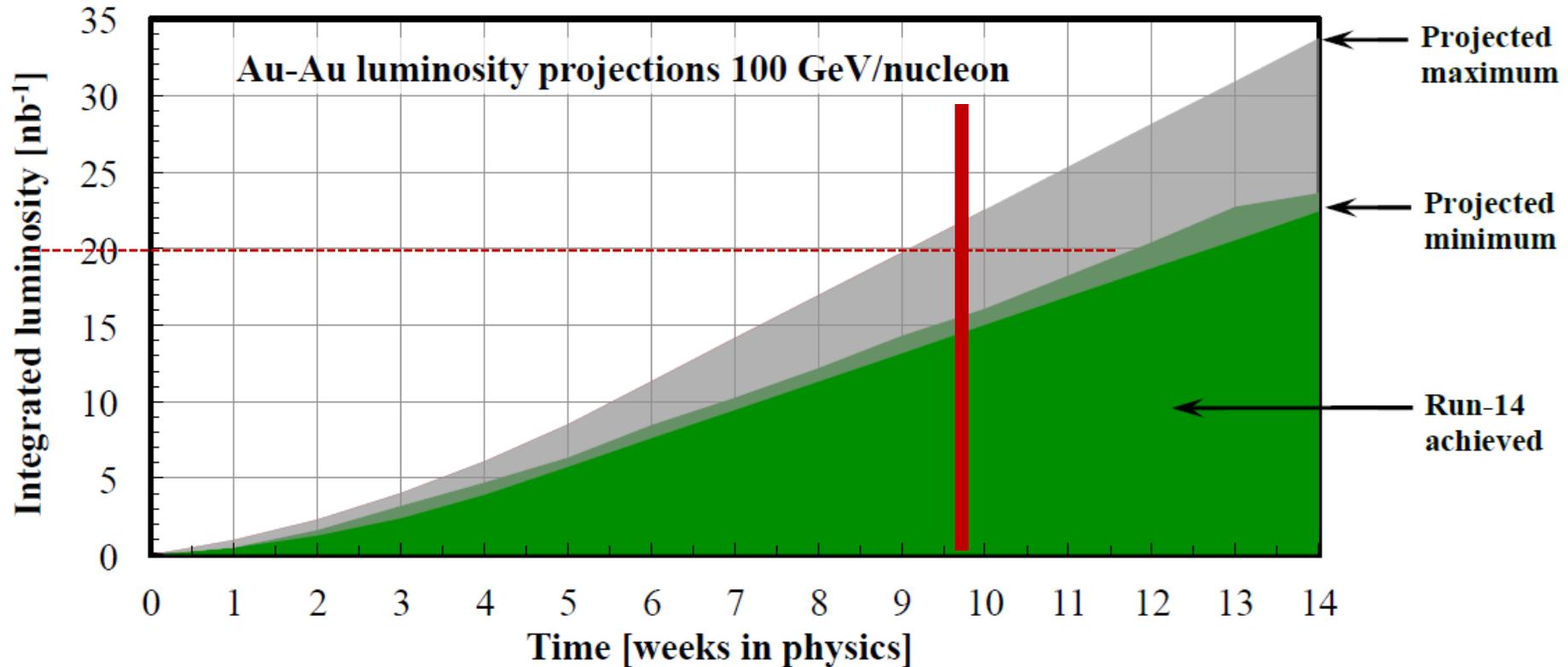


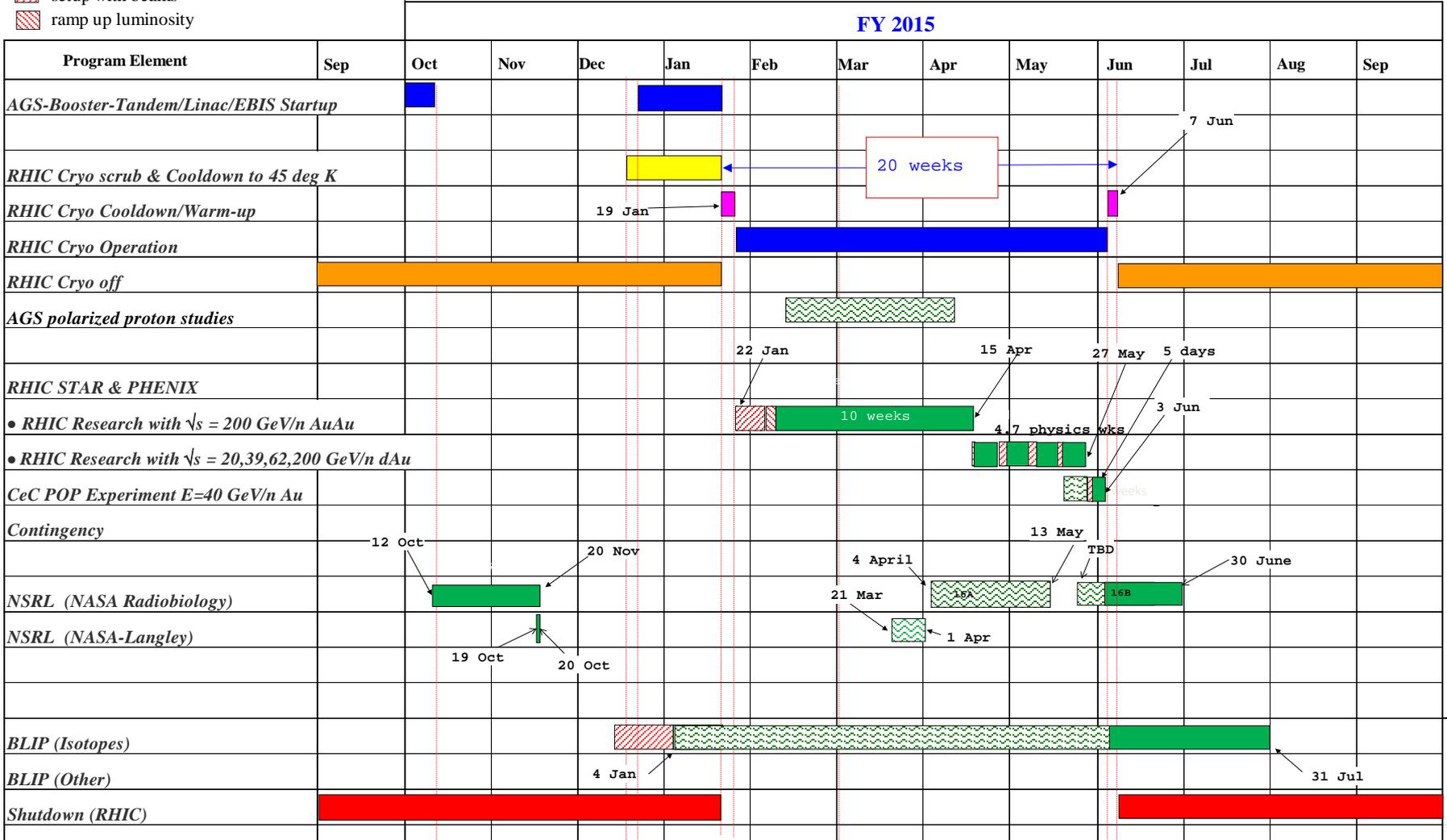
Figure 3: Projected minimum and maximum integrated luminosities for Au+Au collisions at 100 GeV/nucleon beam energy, assuming linear weekly luminosity ramp-up in 6 weeks.

From Fischer et. al., RHIC Collider Projections (FY 2016 – FY 2022), 19 April 2015

C-A Operations-FY16

planned

-  concurrent with RHIC
-  setup with beams
-  ramp up luminosity



Who's Who for 2016

RHIC 100 x 100 GeV AuAu:

Run Coordinator: Xiaofeng Gu, xgu@bnl.gov , 631-344-4724

RHIC dAu Energy Scan:

Run Coordinator: Chuyu Liu, cliu1@bnl.gov , 631-344-4431

RHIC CeC POP Experiment:

Run Coordinator: TBD

Scheduling Physicist: Bill Christie, christie@bnl.gov, 631-344-7137 (x4643 after 29 Jan)

AGS Liaison:

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