

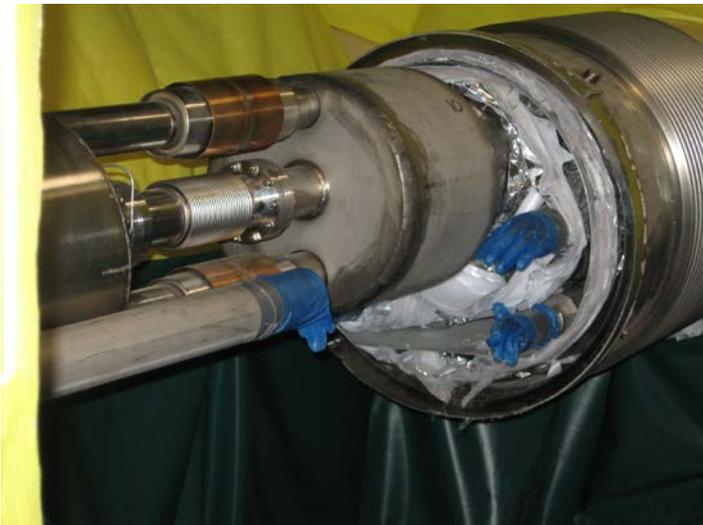
Time Meeting

April 12, 2016.

W. Christie

Blue Ring Magnet String issue (Final Update):

- On Friday morning 7 am (18 March 2016) a problem developed in the RHIC Blue ring dipole string.
- Tests and analyses over Friday and Saturday concluded that a quench protection diode in dipole bo6-d19 is shorted. This diode is part of the current bypass in case of a magnet quench.
- A plan/schedule was compiled and executed to warm up a section of the Blue Ring, confirm the diagnosis of a faulty diode, open the relevant location, replace the diode, re assemble the location, cool down, and return to beam operations.
- **RHIC returned to beam operations 7 pm on Wednesday April 6th (19.5 days).**



Run 16 plan based on 20 weeks cryo operation

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

Today, April 12th

- 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 vs=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)
- ~~15~~ 18 April, End 10 week vs=200 GeV/n AuAu physics run
- ~~16~~ 19 April, Begin 1.4 week vs=20 GeV/n dAu physics run
- ~~26~~ 29 April, End 1.4 week vs=20 GeV/n dAu physics run
- 29 April, Begin 1.4 week vs=39 GeV/n dAu physics run
- 9 May, End 1.4 week vs=39 GeV/n dAu physics run
- 12 May, Begin 0.9 week vs=62 GeV/n dAu physics run
- 18 May, End 0.9 week vs=62 GeV/n dAu physics run
- 21 May, Begin 0.9 week vs=200 GeV/n dAu physics run
- 27 May, End 0.9 week vs=200 GeV/n dAu physics run
- 29 May, Begin 5 day E=40 GeV/n Au CEC physics run
- 3 June, End 5 day E=40 GeV/n Au CEC physics run
- 3 June, begin cryo warm-up
- 7 June, cryo warm-up complete, 20.0 cryo weeks of operation

dAu schedule as proposed by PHENIX,
scaled to 4.7 total physics weeks

- Actual physics time for each energy is TBD

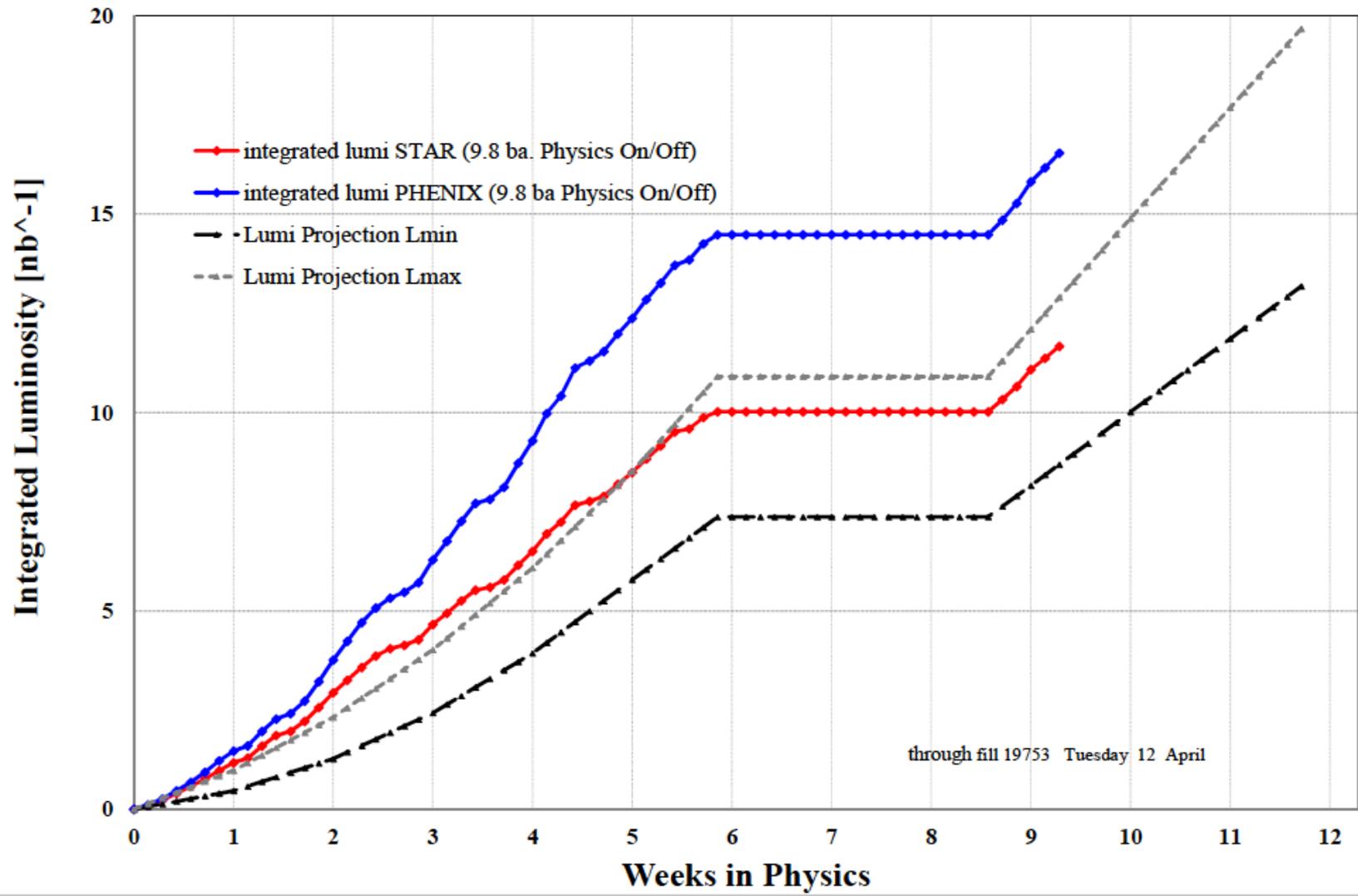
Schedule in Orange
text not updated yet

Note that there will be discussions on how the Blue Ring Diode issue and downtime impact the rest of the Run 16 Plan/Schedule after we are back up and running the AuAu program.

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

Run16 Delivered Luminosity

Au x Au $\sqrt{s} = 200$ GeV



SCHEDULE FOR WEEK FROM MONDAY April 11TH – SUNDAY April 17th

- **Monday:**
 - Physics running
- **Tuesday:**
 - Physics Running
- **Wednesday:**
 - Physics Running until 11:45 am
 - APEX from 12 noon to 8 pm
 - Physics running rest of day
- **Thursday:**
 - Physics Running until 9:45 am
 - Beam Development from 10 am to 2 pm (Order TBD)
 - 2 hours for 56 MHz
 - 2 hours for Beta squeeze at PHENIX
 - Physics running rest of day
- **Friday and through the rest of the week (until Monday):**
 - Physics running.

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

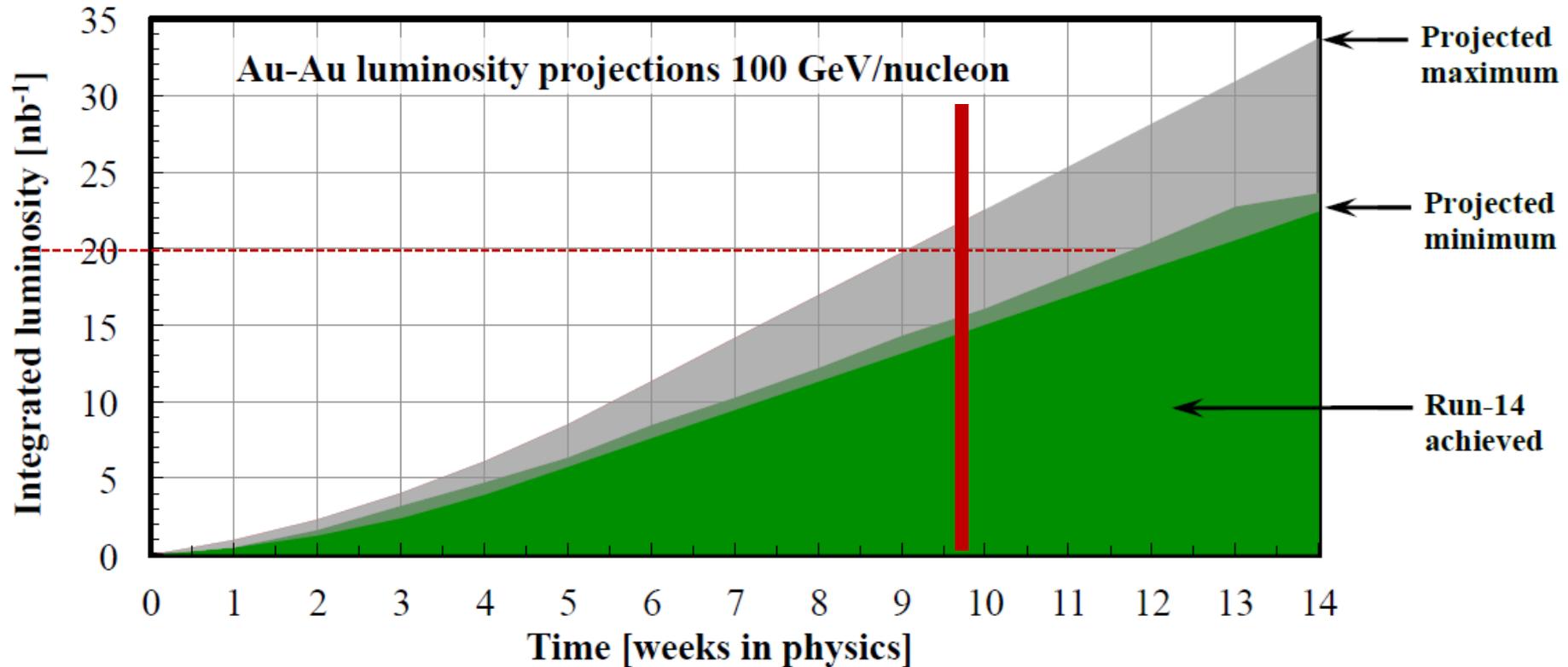


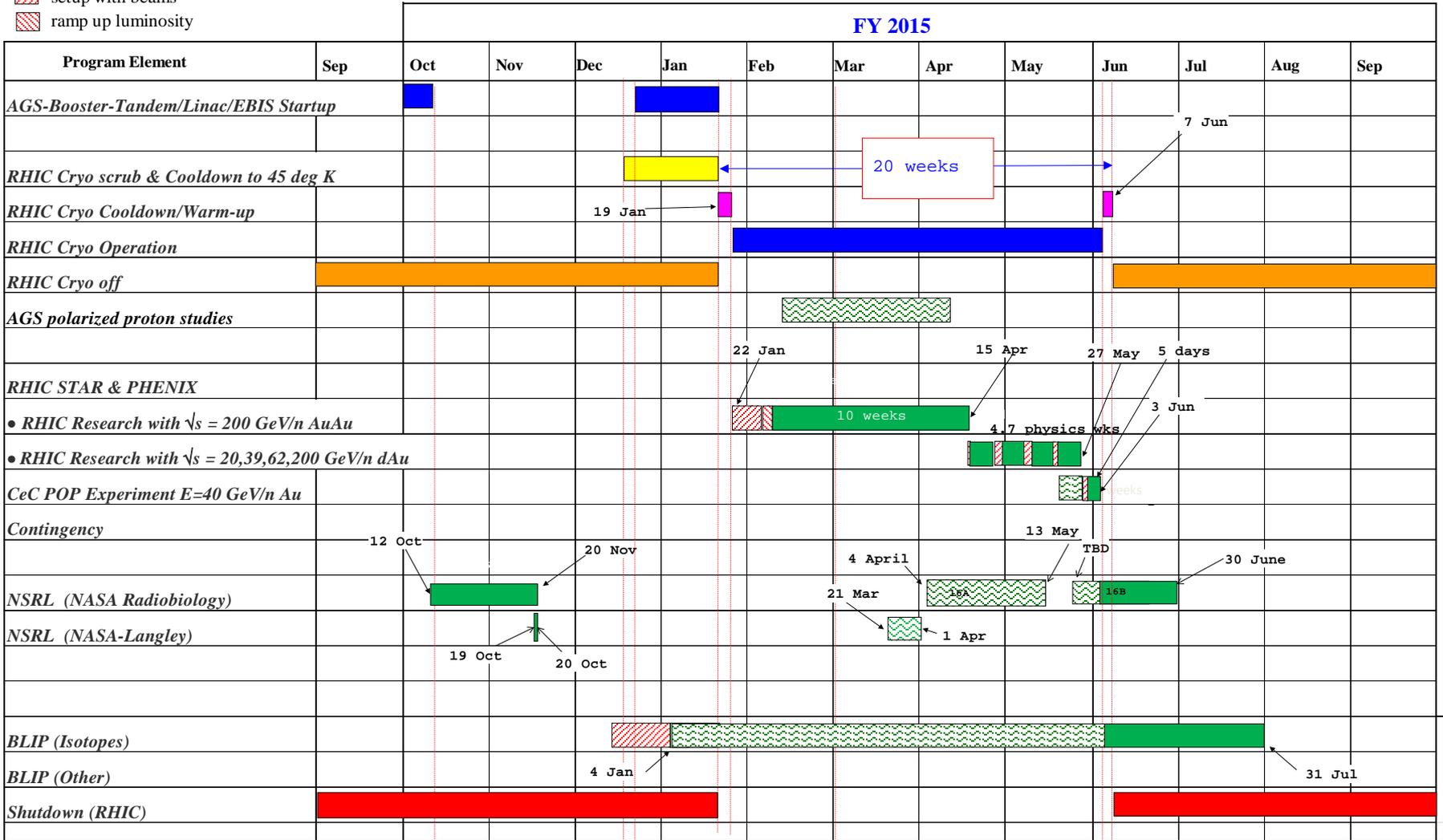
Figure 3: Projected minimum and maximum integrated luminosities for Au+Au collisions at 100 GeV/nucleon beam energy, assuming linear weekly luminosity ramp-up in 6 weeks.

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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