

Time meeting

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BROOKHAVEN
NATIONAL LABORATORY

a passion for discovery



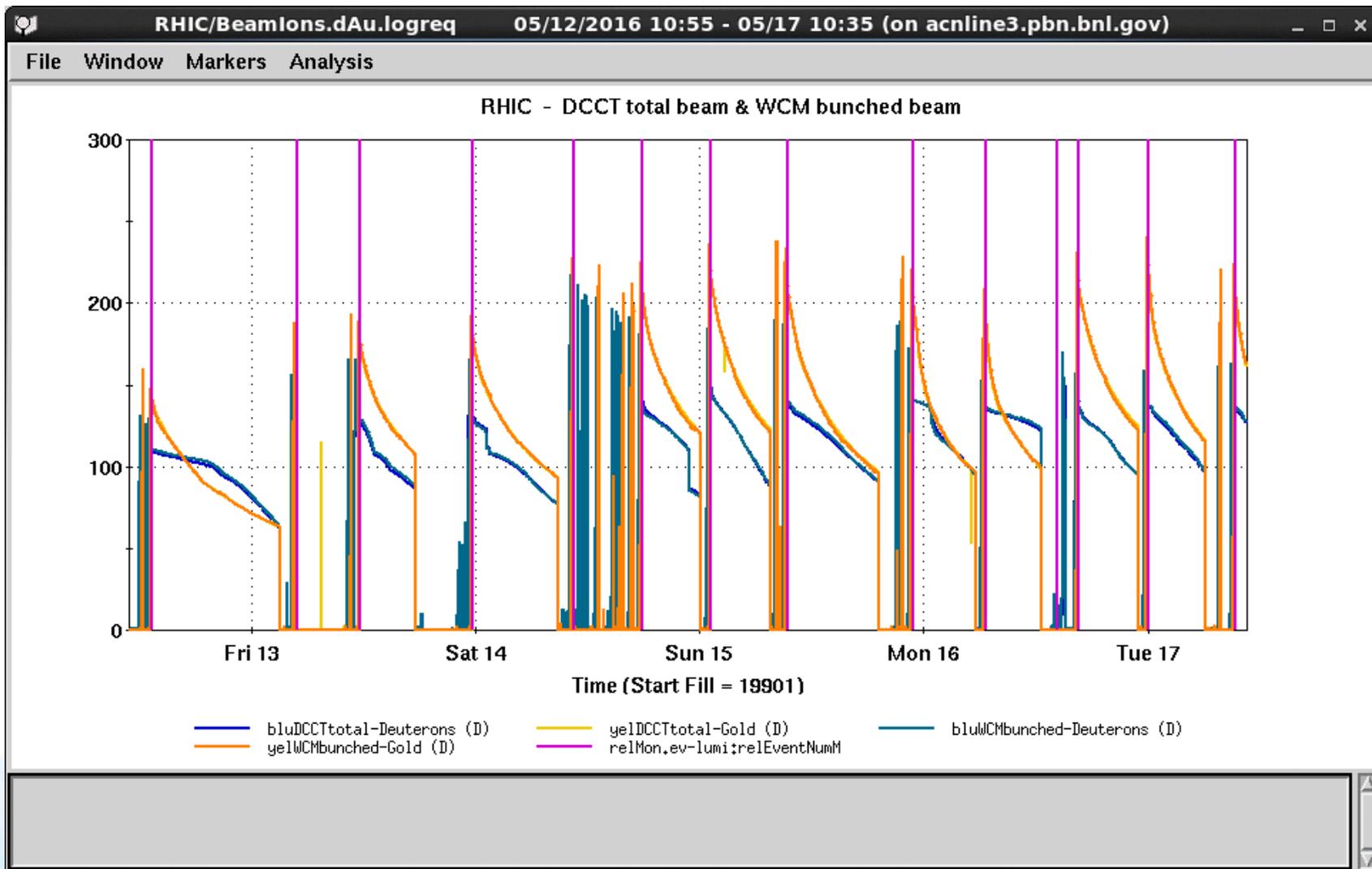
U.S. DEPARTMENT OF
ENERGY

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Science

Status

- Switching to d-Au started 8am, Monday, May 09.
- Stores for detector tuning Wednesday and Thursday early morning.
- Physics declared on Thursday from fill 19901.
- Store length is 6 hours.
- Intensities are $1.5E11$ ppb for d, $2E11$ ppb for Au.
- The average delivered lumi per store is 8.2 nb^{-1} .

Stores



Some progress

- Need some special care due to asymmetrical orbit and IR2 aperture limit: transport line tuning and matching, IR2 orbit bump, collimator setting at injection and fill scheme.
- Tandem cathode was replaced last Friday. The replacement is expected about every week.
- The peak current of d beam with equivalent charge per bunch as Au is higher. RF has been investigating the subsequent effect on transition and re-bucketing.
- The 56 MHz cavity has been operational since the first physics store.

Plan

- There will be 10 hrs APEX Wednesday starting from 1 pm.
- The physics running of 100 GeV dAu program will end Friday, 8 am.
- Beam development will start after ~6 hrs of CeC access on Friday.
- Physics running of 31.2 GeV dAu is expected on Saturday.