

# MIRP Operations

- **Safety**
  - No incidents, ESR for summer work (students) are completed
- **TPL Maintenance**
  - Finishing work on ventilation panel – final calibration possibly in 2 weeks
  - Electrical work at TPL this week: install LED lights above hot cells, clean lenses to remove bugs
- **BLIP Maintenance**
  - Next maintenance day June 21st

# Beam utilization

## Production: Sr-82

- The 8<sup>th</sup> set of RbCl targets out of the beam on Jun 6<sup>th</sup>
  - Arronax material arriving at BNL today 06/14
  - Processing commences this week
- The 9<sup>th</sup> set of RbCl targets inserted into beam 6/7 @ 1038
  - Total Accumulated charge as of 6/13/16 @ 2359 – 20,243.69 uA-h
  - Total hours of beam – 149.28
  - Average Current to date – 136.61 uA
  - SOB- 6/7/16 @ 1038.... EOB- 6/27/16 @ 0900
  - Processing starts July 5<sup>th</sup>

## Research: Se-72/As-72

- GaAs target inserted into the beam in front of RbCl targets on 6/8 @ 1016.
  - Run completed 6/13 @ 0900.
  - Total accumulated charge 15883 uA-h
  - Processing in progress for Se-72/As-72 extraction

# Research irradiations for the next 3-4 weeks

- 66 MeV dedicated irradiation
  - **second half of June**, possibly next week (pending approval), 1-2 h total, focused beam
- 200 MeV Ac-225 production (Th target) run
  - **July 1-5** followed by shipment to ORNL and further to Germany
- Physics Mo-graphite targets will be run behind the Th target (Box 1) (Nick Simos PI)
- Thorium foil run for Ac-225 research, 0.5 hr run, immediately before 200 MeV Ac-225 run
- Sc target run behind the Th target in the c-slot (low energy) for duration of Th and physics irradiation

# Future research irradiations (before end of the season)

- **Mid-July:** Arsenic target run as beam degrader for RbCl targets
  - Assess Se-72/As-72 production
- **July:** 2 Zinc foils, dedicated run at incident 117 MeV energy on target 108 and 45 MeV
  - Assess Cu-67 radiopurity at different energies, focused beam
- **July:** Large Th target test run
  - “Cook and look” at 160 MeV, 130 $\mu$ A currently scheduled for July, up to 3 h
  - Target survivability
- **July:** Overnight production run for Cu-67
  - Enriched <sup>68</sup>Zn target at 140 MeV incident
- **Mid June-July 31:** W and Os targets for Re-186/Re-192
  - Multiple irradiations (**5-8**) at incident LINAC 66 MeV, energy on target will be tailored using beam degraders, for 0.5-1 hr 40-TBD uA focused beam
- **End of July:** Ga target test at full current