

## **APEX workshop 2012**

Date/time: 9am Nov. 19 – 4:00pm Nov. 20

Venue: BNL Center

Organizer:

- AEAC: M. Bai, M. Blaskiewicz, W. Fischer, H. Huang, M. Minty  
V. Litvinenko, P. Pile, T. Roser, P. Yamin, S. Vigdor
- Run coordinator: V. Ranjbar, G. Robert-Demoleize

### **Agenda**

**Opening session: Nov 19 9am – 10am**

Session chair: [Lowenstein](#)

- Welcome: Thomas 5 min
- RHIC performance and motivation: Wolfram 20+5 min
  - Challenges
- Instrumentation Update for RUN 13: Gassner 15+5
- APEX status/plan/policy: Bai 5+5 min
  - Challenges on APEX for RHIC future

**Coffee break: Nov. 19 10am-10:30am**

**Studies regarding machine optics: Nov 19 10:30am—12:30pm**

Session chair: [Ptitsyn](#)

- Run13 Lattice development: S. Tepikian 25 min
- Beam studies for Elens lattice development in RUN12: C. Montag 15 min
- Towards higher polarization by matching DX prime at the two snakes: C. Liu 20 min
- Beta squeeze with large arc beta wave: Gu, Xiaofeng 20 min
- Optics correction using ac dipole based measurement: G. Robert-Demolaize 20 min
- ORM for RHIC: T. Summers 20 min

**Lunch break: Nov 19 12:30pm – 1:20pm**

**Beam studies at other facilities: Nov 19 1:30pm—2:00pm**

Session chair: [Fischer](#)

- Polarized electron/positron source development at Jlab: J. Grames(Jlab): 20mins

**Studies regarding machine optics: Nov 19 2:00pm—3:00pm**

Session chair: Ptitsyn

- Beam-Beam related studies: Y. Luo 20 min
- Correct error contributions from arcs with orbital bumps in sextupoles: S. White/R. Tomas 20 min
- AGS on-line modeling: F. Meot 20 min

**Coffee break: Nov 19, 3pm – 3:20pm**

**Studies with Polarized proton session: Nov. 19 3:20pm-4:20pm**

Session chair: Roser

- AGS polarization development: V. Schoefer 20 min
  - Extraction on the fly
  - Radius jump
- Explore polarization loss during acceleration: V. Ranjbar 20 min
  - Impact of Orbit harmonic Correction
  - Polarization Loss Crossing 411-NU resonance in RHIC
- Explore RHIC new working point for pp: near-integer: M. Bai 20 min
  - Challenges in optics correction as well as beam controls

**Studies with Polarized proton session: Nov 19 4:30pm – 5:10pm**

Session chair: Roser

- RHIC P-Carbon CNI polarimeters plans for RUN 13 Zelenski 20 min
- ELens related beam dynamics studies: Y. Luo 20 min
  - Effect of long Gaussian tails on beam lifetime in the oncoming beam
  - Electron lens straightness requirements:

**Beam studies at other facilities: Nov 20 9:00am—10:00am**

Session chair: Fischer

- Beam Studies at LHC: G. Papotti(CERN) 20 + 10 min
- Electron Lens Studies at Tevatron: G. Stancari(FNAL) 20 +10 min

**Coffee break: Nov 20 10am—10:30am**

## **Studies with ions session: Nov 20 10:30am—12:30pm**

Session chair: Bai

- Beam studies for p-A collision: D. Trbojevic 25 min
- Polarized He3 acceleration in Booster/AGS: H. Huang 20 min
- APEX studies for eRHIC: V. Ptitsyn 30 min
  - Bunch length limits
  - Beam-beam and space charge effect
- APEX experiments for CeC PoP: G. Wang 25 min
  - Summary from last study
  - Plan for this coming run
- Beam studies for low energy studies: C. Montag 20 min
- Discussion

**Lunch break: Nov. 20 12:30pm - 1:30pm**

**Beam Instrumentation: Nov 20 1:30pm - 4:15pm**

Session chair: Blaskiewicz

- New scheme for precision optics measurement at injection, store, and during the energy ramp: C. Liu 25 min
- Test of Head-Tail Chrom. measurement using BBQ, V. Ranjbar 25 min
- Beam based alignment status and plan for RUN 13: J. Beebe-Wang/J. Ziegler 20 min

**Coffee break: Nov 20 2:45pm—3:00pm**

- Technique for closing spin flipper ac dipole bumps at high precision: P. Oddo/J. Kewisch 25 min
- IPM calibration: Roger 25 min
- Development of He3 polarimetry: Y. Makdisi 25 min

Closeout