



sPHENIX Mega-Workfest
Collaboration news
January 17 2019

Dave Morrison (BNL), Gunther Roland (MIT)

EIC announcement

U.S. Department of Energy Selects Brookhaven National Laboratory to Host Major New Nuclear Physics Facility

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[Home](#) » U.S. Department of Energy Selects Brookhaven National Laboratory to Host Major New Nuclear Physics Facility

WASHINGTON, D.C. – Today, the **U.S. Department of Energy (DOE)** announced the selection of Brookhaven National Laboratory in Upton, NY, as the site for a planned major new nuclear physics research facility.

The Electron Ion Collider (EIC), to be designed and constructed over ten years at an estimated cost between \$1.6 and \$2.6 billion, will smash electrons into protons and heavier atomic nuclei in an effort to penetrate the mysteries of the “strong force” that binds the atomic nucleus together.

Long awaited; excellent news for BNL

Potential of sPHENIX as basis of day-1 detector
presents big opportunity!

EIC announcement, part II

- News reports from press briefing included statements not part of initial press release:
 - "However, the announcement does signal the end for the RHIC, which has run since 1999. To make way for the new collider, the RHIC will shut down for good in 2024, Dabbar said at the briefing."
 - "The electron-ion collider will be integrated into the RHIC, which will be gradually phased out and retired by 2024, Dabbar said."
- This came as a surprise, apparently not only for us
-

Developments since last GM

- DM and GR met with ALD on Monday morning
- ALD iterated that BNL plans had **not** changed; DM and GR emphasized that this needs to be stated publicly
 - No expectation for explicit DOE-NP statement correcting under secretary Dabbar
- ALD followed through:
 - Weekly NPP update and CERN courier

Developments since last GM

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Brookhaven to host Electron-Ion Collider

14 January 2020

The US Department of Energy has selected a plan whereby accelerator infrastructure at the Relativistic Heavy-Ion Collider at Brookhaven National Laboratory (pictured) will be reconfigured to boast a new electron storage ring in addition to existing infrastructure for the acceleration of heavy ions. Credit: BNL

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is foreseen to cost between \$1.6bn and \$2.6bn, with first physics planned in 2029 or 2030, following the completion of RHIC’s science programme at the [STAR](#) and newly upgraded sPHENIX experiments. “Our plan, working with the DOE Office of Nuclear Physics, remains unchanged,” says BNL’s associate laboratory director for nuclear and particle physics Berndt Mueller: “to complete the RHIC science mission by bringing sPHENIX into operation for three years of data taking.”

S&C Workfest: Jan 13-17



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- Good participation and discussions at the workfest
- Nobody starved
- Summaries later this morning
- Just the beginning for many important issues

IB meeting this morning

- Presentation from three potential new institutions
 - Lund
 - NTU
 - Pusan
 - Electronic vote next 10 days
- Presentation by Diversity Committee on Code of Conduct
 - Comments/vote by IB in the next weeks

Important dates

- Jan 20: Deadline for HP'20 abstracts (re-use subset of QM abstracts)
- ~~Missing speakers for Bormio and WWND~~
- Feb 3-5: Santa Fe workshop (Dave)
- Apr 15-17: Jets @ EIC workshop, BNL
- May 18-19: sPHENIX in Asia meeting @Riken/Wako
- Jun 1-5: HP'20 in Austin
- Jun 9-12: AUM @ BNL
- PAC meeting: Sep 10-11
- Next collaboration meeting: Late June/early July - doodle poll coming; BNL or offsite?