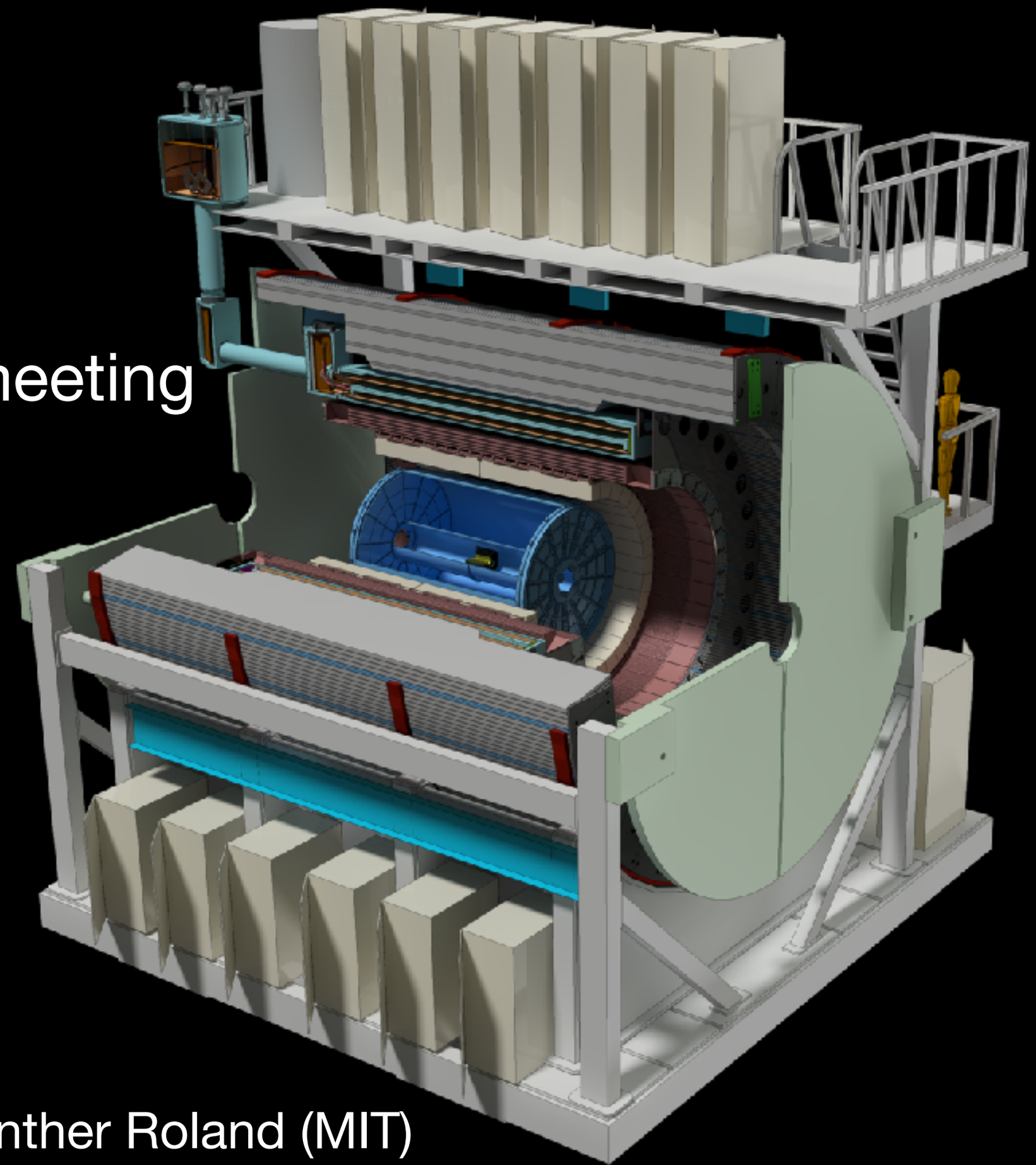
sPHENIX general meeting
Collaboration news
December 2, 2016



Dave Morrison (BNL), Gunther Roland (MIT)

KEEP
CALM
AND
VOLUNTEER
(to take minutes for today's meeting)

Plan for today

Friday, 2 December 2016

12:00 - 12:30	sPHENIX News *30'* Speakers: Dr. David Morrison (BNL), Prof. Gunther Roland (MIT)
12:30 - 12:50	Collaboration Meeting at GSU *20'* Speaker: Megan Connors (Georgia State University RBRC)
12:50 - 13:20	Project update *30'* Speakers: Edward O'Brien (BNL), John Haggerty (Brookhaven National Laboratory)
13:20 - 13:50	Jet TG recent progress *30'* Speaker: Dr. Rosi Reed (Lehigh University)

Collaboration survey

- Wrapping up survey of Institutional Board members – from their institution, who is an sPHENIX collaborator
  - about 225 collaborators, several current institutions have added people
  - jobs connected to sPHENIX are being opened
  - entry of three new institutions will be discussed at GSU collaboration IB meeting (LBNL, UC Berkeley, Temple)
- A person-by-person survey will be coming

Recent discussions with the ALD

- ALD meeting on November 30 was canceled
- From November 4 GM: Talked about setting up a WG (PHENIX, STAR, sPHENIX) to examine whether a run in 2021 would be meaningful. One step: sPHENIX cold QCD TG and corresponding STAR group will coordinate meeting times, starting in 2017
- BNL nuclear theory still has a senior and a junior position open. Suggestions?
- BNL focus on EIC continues to grow, including role of evolved sPHENIX. National Academies of Science charged to evaluate science case. ALD anticipates there will be a meeting ~March 2017 to get input on science case.

U.S.-Based Electron Ion Collider Science Assessment

Statement of Task:

The committee will assess the scientific justification for a U.S. domestic electron ion collider facility, taking into account current international plans and existing domestic facility infrastructure. In preparing its report, the committee will address the role that such a facility could play in the future of nuclear physics, considering the field broadly, but placing emphasis on its potential scientific impact on quantum chromodynamics.

In particular, the committee will address the following questions:

- What is the merit and significance of the science that could be addressed by an electron ion collider facility and what is its importance in the overall context of research in nuclear physics and the physical sciences in general?
- What are the capabilities of other facilities, existing and planned, domestic and abroad, to address the science opportunities afforded by an electron-ion collider? What unique scientific role could be played by a domestic electron ion collider facility that is complementary to existing and planned facilities at home and elsewhere?
- What are the benefits to U.S. leadership in nuclear physics if a domestic electron ion collider were constructed?
- What are the benefits to other fields of science and to society of establishing such a facility in the United States?

planning for QM'17

- Megan Connors has agreed to give the sPHENIX talk in the futures session – super!
- Many posters (next slide)
- Topical groups should come up with list of updated plots to produce by QM

QM'17 posters - an excellent line-up

sPHENIX Tracking Performance Simulations, Veronica Canoa (SBU)
The intermediate tracking system of the sPHENIX detector at RHIC, Gaku Mitsuka (RBRC)
Jet spectra and jet structure measurements with sPHENIX, Rosi Reed (Lehigh)
sPHENIX TPC mechanical design, Klaus Dehmelt (SBU)
A Prototype of the sPHENIX Hadronic Calorimeter, Abhisek Sen (ISU)
Studying Proton Structure, the Partonic Structure of Nuclei, and Hadronization at sPHENIX, Chong Kim (UCR)
Identification of heavy-flavor jets in sPHENIX using MAPS, Cesar da Silva (LANL)
R&D Studies for the sPHENIX Time Projection Chamber, Prakhar Garg (SBU)
R&D for the sPHENIX MAPS inner tracker, Ming Liu (LANL)
A Common Readout System for the sPHENIX Electromagnetic and Hadronic Calorimeters, Eric Mannel (BNL)
The Readout and Data Acquisition Design of the sPHENIX Detector at RHIC, Martin Purschke (BNL)
Front End Readout for the sPHENIX Time projection chamber, Takao Sakaguchi (BNL)
Modification of Upsilon production in nuclear collisions measured with sPHENIX, Krista Smith (FSU)
Design of the sPHENIX tracker, Sourav Tarafdar (VU)
B-Jet Tagging Algorithms for sPHENIX at RHIC, Haiwang Yu (NMSU)
Test Beam Performance of the sPHENIX EMCal Prototype, Virginia Bailey (UIUC)
Construction and testing of the sPHENIX hadronic calorimeter prototype, Jamie Nagle (Colorado)
Design and test-beam performance of the sPHENIX calorimeter system, Jin Huang (BNL)