General Update

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- Simulation workshop, Sept 21st 2021, https://indico.bnl.gov/event/13060/
  - Calo cluster afterburner
  - hadron PID
  - scattered electron reconstruction
  - plotting style macros

- Second simulation campaign
  - The simulation team is implementing both PID and calorimeter clustering in the simulation, but calorimeter clustering may take more time. (try afterburner)

- Physics plots for the draft proposal event the plots are premature (e.g., true PID). Can anyone provide these plots in two weeks?

- Preliminary plots deadline: mid October. Final plots deadline: by the end of October

- Only the steering committees, editorial team and the godparents can edit the detector proposal. The godparents will go through each analysis and summarize the works in the proposal. Please finish your analysis notes early to give time for godparents to read through your study!

List of Physics plots

- **Nuclear modification factor (ReA) of J/psi vs momentum fraction (z)**
  NAS topic 6: Propagation of energetic quarks through matter
  Person in charge: Xinbai Li and Wangmei Zha of USTC

- **Projected uncertainties for the nuclear modification factor (ReA) of open heavy flavor vs momentum fraction (z)**
  NAS topic 6: Propagation of energetic quarks through matter
  Person in charge: Xuan Li of LANL

- **Jet energy scale and resolution vs jet energy**
  Detector performance study
  Person in charge: Tristan Protzman and Rosi Reed of Lehigh

- **Jet ReA vs jet pT**
  NAS topic 6: Propagation of energetic quarks through matter
  Person in charge: Raymond Ehlers of ORNL

- **Dihadron azimuthal angle correlation: delta phi distribution**
  NAS topic 1: Tomographic Imaging of Quarks and Gluons (Gluon saturation)
  Person in charge: Nathan Grau of Augie

- **Jet eta vs. jet z for primary particle jet, reconstructed track jet and reconstructed track+cluster jet**
  NAS topic 3: 3D imaging in Momentum Space (TMD)
  Person in charge: John Lajoie of ISU

- **Reconstructed track+cluster jet q_perp vs. z**
  NAS topic 3: 3D imaging in Momentum Space (TMD)
  Person in charge: John Lajoie of ISU

- **Distribution of jet charge for u-quark and d-quark jets**
  NAS topic 3: 3D imaging in Momentum Space (TMD)
  Person in charge: John Lajoie of ISU