BNL-PO EIC Group Discussion

- What shall we (I) do in the next 10 years?

Kong Tu BNL 06.06.2022

EIC – My areas & Interests

In my opinion/view, there are 3 major categories:

EIC Detector(s)

reference & (potential) the 2nd

Current roles:

- Provide supports in MC simulations and prod/QA.
- Physics validations

Future interest:

- Far-forward detector developments.
- Hands-on hardware project
- 2nd IR and detectors

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- Diffractive and tagging, e.g.,
 VMs production in ep and eA; *Imagining* and/or saturation phenomena
- Light-ion physics, specifically with tagging.
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Model developments:

BeAGLE and related models



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Beyond WP & YP physics the bonus of the project

New ideas:

- Our ``LDRD topics", e.g., entanglement, spins, etc.
- New EIC physics and quantum computers
- ...
- Topics that might be uniquely/better done at a 2nd IR and detector.

As an early-career scientists at BNL-PO

What are the guidance/plans/views of the BNL-PO on early-career scientists?

(esp. in the context of the EIC)

We need to hear from PO too!

Our (my) needs to fulfill the goals:

- Is there any mechanisms to hear from /help/guide early-career scientists;
- Is there any mechanisms to promote/encourage early-career scientists;
- Is there any Lab- or department-level programs specifically for helping early-career scientists to establish.