ePIC-SoLID Software Collaboration

Shared Development

- **Reconstruction Algorithms** for calorimeter, Cherenkov, and tracking subsystems.
- Both ePIC and SoLID aim for **holistic reconstruction** by using the full information from their integrated, large-scale detector systems, taking dependencies—such as those between tracking and PID—into account. This represents a novel and unique approach to advancing reconstruction.

Additional Opportunities

- **MC Event Generators (MCEGs):** Collaborate to validate MCEGs for ePIC-SoLID science program.
- **Streaming DAQ and Computing:** Leverage ongoing development and prototyping of the integrated streaming DAQ and computing system for ePIC.

Proposal: Organize a joint meeting to identify current efforts, developers, and timescales, with the aim of fostering coordination on shared developments in subsequent meetings.