

# Event Reconstruction Toolkit



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# Unified Tracking

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2017 October 17  
EIC Software Consortium Workshop – Fall 2017



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CHARTERED 1693

*Supported by the National Science Foundation under Grant Nos. PHY-1405857, PHY-1714792.*

Following up on our earlier discussions on unified tracking and a sandbox environment.

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# Event reconstruction



# Event reconstruction components

## Event Reconstruction Toolkit

### Reconstruction

- Calorimeter clustering
- Track reconstruction
- Vertex reconstruction

### PID

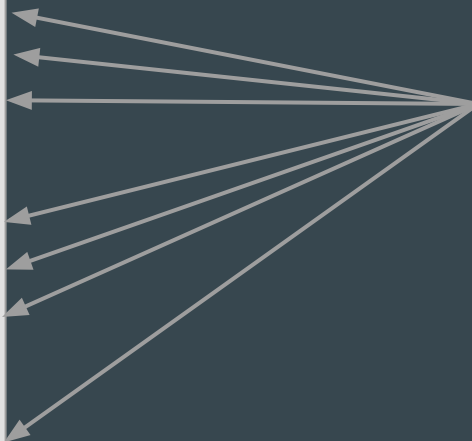
- Lepton-hadron separation
- Lepton identification
- Hadron identification

### Event kinematics

- Kinematics calculation

## Components

- implementation of an algorithm
- developed by various scientists / groups



# Benefit for an event reconstruction toolkit

- **R&D on detector concepts**
  - baseline reconstruction
  - flexible reconstruction not optimized for / constrained by detector geometry
- **R&D on detectors**
  - test environment for R&D on new components
- **R&D for a community**
  - catalog of components
  - comparison of components

# Prototype for an event reconstruction toolkit

