

# Secondary Vertex Finding Status

- Overall Status
  - Basic workflow in place based on ACTS
  - **What's in place?**
    - › SecondaryVertexFinder class available
    - › FullbilloirFitter and DCA cut working
  - **What's missing?**
    - › Import of primary vertices for track rejection
- Workflow Inputs/Outputs:
  - **Input: *Tracks and primary Vertex***
    - › (ActsExamples::Trajectories)
    - › (edm4eic::VertexCollection)
  - **Output: *Secondary vertices***
    - › (edm4eic::VertexCollection)
- Near Term Goals:
  - Improvement via primary vertex import
  - Full pythia event validation
- Longer Term Goals:
  - Comparison to KFParticle secondary vertex finder

