

B0 Si Tracker

Zvi Citron

Detector Design

- Overview
- Detector requirements
- Radiation requirements
- Piggy back off of test beam results from other AC-LGAD groups

Performance

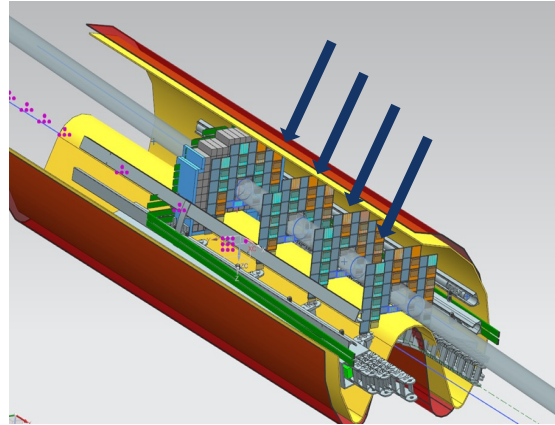
- Some benchmarks defined
- Full event reconstruction

Mechanics and Integration

- Structure
- Support structures

Status in dd4hep

- Baseline detector implemented
- More sophisticated implementation needed (e.g. digitization)
- Synchronization of dd4hep and CAD on the engineering side



Ready
Work in progress
Lots to do

Readout

- Piggybacking off of readout in use by other sub-systems

Cooling

- TBD

Monitoring System

- TBD

Beamline integration

- Basic installation plan exists, lots still to do

B0 EM Calorimeter

Zvi Citron

Detector Design

- Overview
- Detector requirements
- Radiation requirements
- Test beam: can we join other system (e.g. backwards EMCal) efforts?

Performance

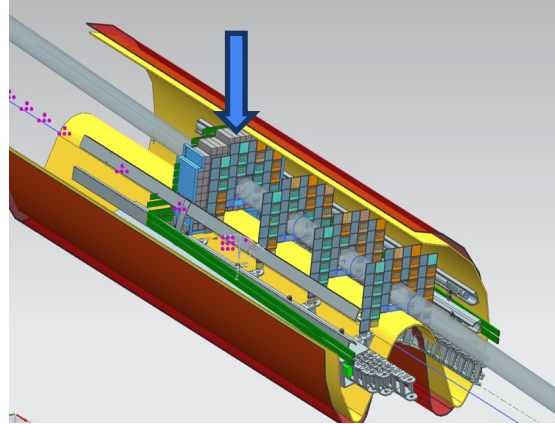
- Full set of benchmarks defined
- Full event reconstruction

Mechanics and Integration

- Structure
- Support structures

Status in dd4hep

- Baseline detector implemented
- More sophisticated implementation needed (e.g. digitization), some problems in reco/clustering
- Synchronization of dd4hep and CAD on the engineering side



Readout

- Readout with APD with two different gains

Cooling

- TBD

Monitoring System

- TBD

Beamline integration

- Basic installation plan exists, lots still to do

Ready
Work in progress
Lots to do