ZDC SiPM-on-tile portion
DSL/DSTC

Detector Design
- **Overview**
- **Detector requirements**
- **Radiation requirements**
- **Test beam results**
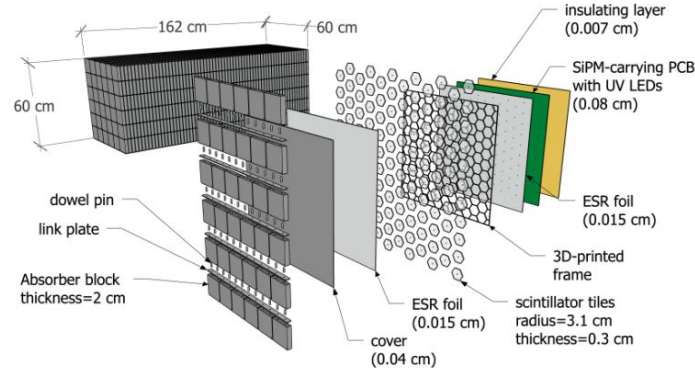
Performance
- **Full event reconstruction**
- **Physics performance studies:**
  - Single neutron
  - Single photon, photon/pi0 separation
  - Multiple neutrons
  -Lambda

Mechanics and Integration
- **Self-supporting Fe structure**

Status in dd4hep
- Geometry fully implemented
- Clustering algorithms tested

insulating layer
(0.007 cm)

SiPM-carrying PCB
with UV LEDs
(0.08 cm)

ESR foil
(0.015 cm)

3D-printed
frame

scintillator tiles
radius=3.1 cm
thickness=0.3 cm

162 cm

60 cm

60 cm

dowel pin

link plate

Absorber block
thickness=2 cm

ESR foil
(0.015 cm)

cover
(0.04 cm)

Readout
- **HGCROC2**

Cooling
- **No**

Monitoring System
- TBD

Beamline integration
- TBD