

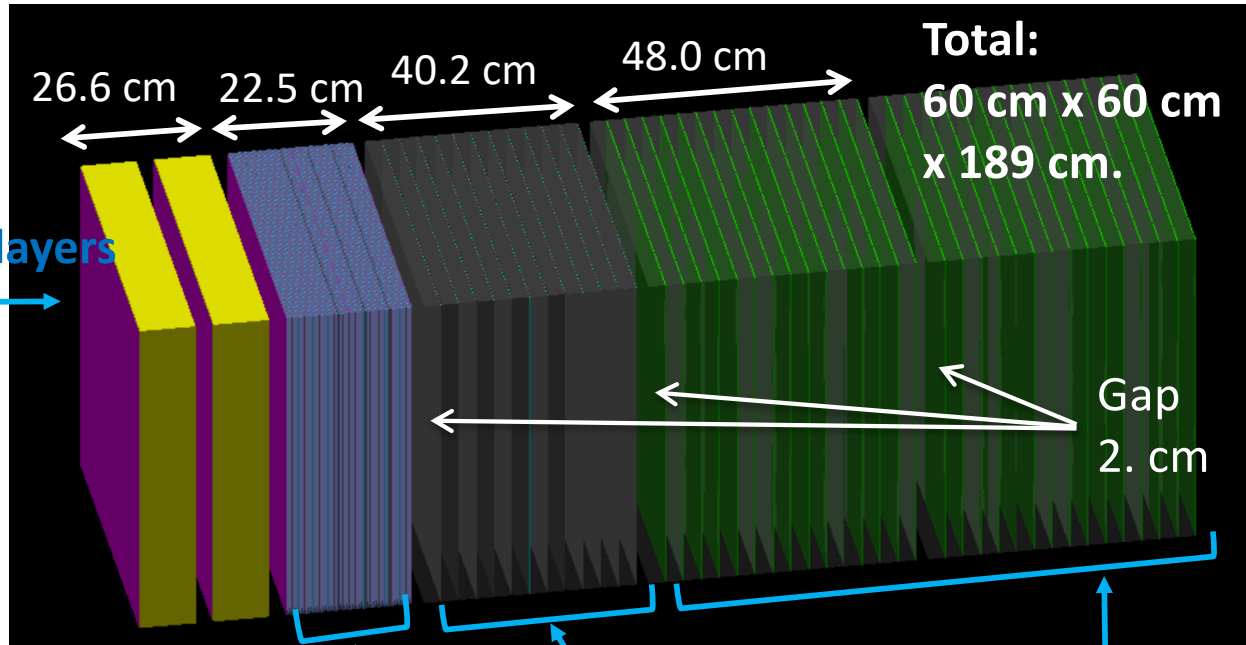
# **Weekly RBRC meeting 27/May/2021**

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# Progress of the weeks

- ◆ ZDC structure is created. (next slide)
  - Requirement: detect neutron and  $\gamma$ , even 300~400 MeV  $\gamma$
  - Starting from
    - Yuji Y. slides in March @ EIC-Japan meeting.
    - ALICE FoCal Geometry.
  - Discussed in EIC-Japan meeting (25/May). → Updated.
  - Geometry is ready in Fun4All.
  - Shown in eRD27 meeting?
- ◆ Plan:
  - Prepare output variables of ZDC in Fun4All.
  - Put the codes in ECCE github?
- ◆ Waiting for BNL account...

# What I put in Fun4All



**Silicon**  
 3 mm x 3mm x 300 μm  
 PET (Glue) 0.11 mm  
 PET (FPC) 0.28 mm  
 Gap 1.2mm  
**Crystal (PbWO4)**  
 3cm x 3cm x 10 cm  
 Gap 3 cm

Tungsten 3.5 mm Thickness  
 PET (Glue) 0.11 mm  
**Silicon 1 cm x 1 cm x 320 μm**  
 PET (Glue) 0.13 mm  
 PET (FPC) 0.28 mm  
 Gap 1. mm  
 5.34 mm

Tungsten 3.5 mm Thickness  
 PET (Glue) 0.11 mm  
**Silicon 3 mm x 3mm x 300 μm**  
 PET (Glue) 0.11 mm  
 PET(FPC) 0.28 mm  
 Gap 1.2mm  
 5.5 mm

**Si +**  
 x 2  
 20 layers  
 +  
 1 layer

**12 layers**  
 Pb 3cm Thickness  
 PET (Glue) 0.11 mm  
**Silicon 1 cm x 1 cm x 320 μm**  
 PET (Glue) 0.13 mm  
 PET(FPC) 0.28 mm  
 Gap 1. mm

**30 layers (15 layers x 2)**  
 Pb 3cm Thickness  
**Scintillator 10 cm x 10 cm x 2 mm**  
 Gap 0.0013 mm

**Total:**  
 W: 42 layers,  
**Si: 3 layers,**  
**Si: 40 layers**

# snapshot

- ◆ Neutron 1 GeV is shot on the detector.

