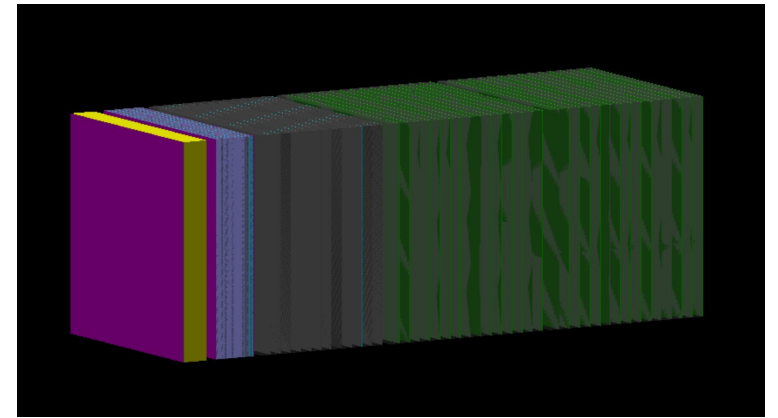


# **Weekly report**

Shima Shimizu

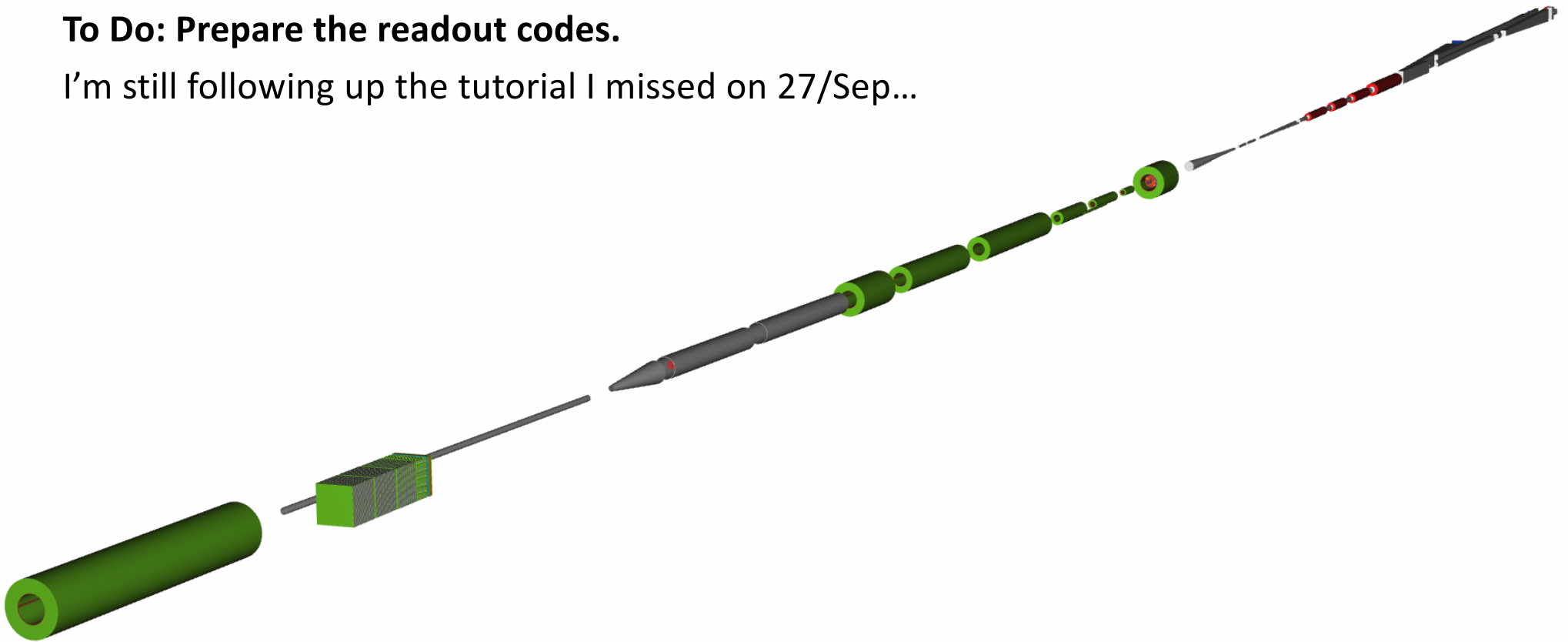
# ZDC in simulation

- ◆ Put the ECCE ZDC structure (Fun4All) into DD4HEP.
- ◆ Readout codes are not ready.
  - This ZDC will probably not in the first simulation campaign.



**To Do: Prepare the readout codes.**

I'm still following up the tutorial I missed on 27/Sep...



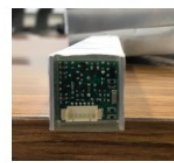
# Realization of ZDC

- ◆ In preparation of CAD picture for pre-TDR, we had several discussions.
  - Discussion items are on table.
- ◆ Proto-type of the crystal calorimeter?
  - Can we use remains of the ALICE PHOS at Hiroshima-U?
  - It seems we should prepare readout after T-cards by ourselves.
- ◆ To Do:
  - Discussion with “EIC ZDC group”, not only in Japan.

## ALICE PHOS @広島大



PbWO<sub>4</sub>結晶: 2.2 cm x 2.2 cm x 18 cm



プリアンプ : gn-0261-2? -3?  
T-card : gn-0704-15



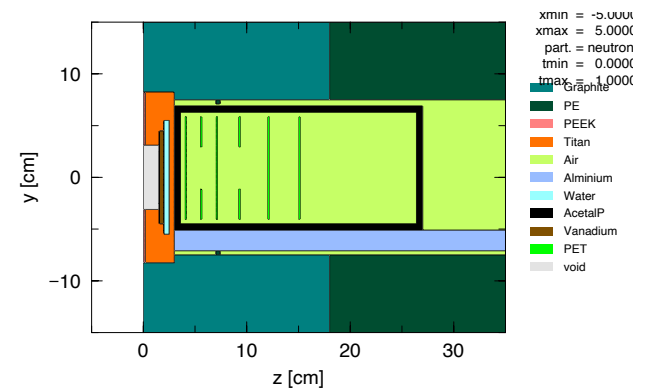
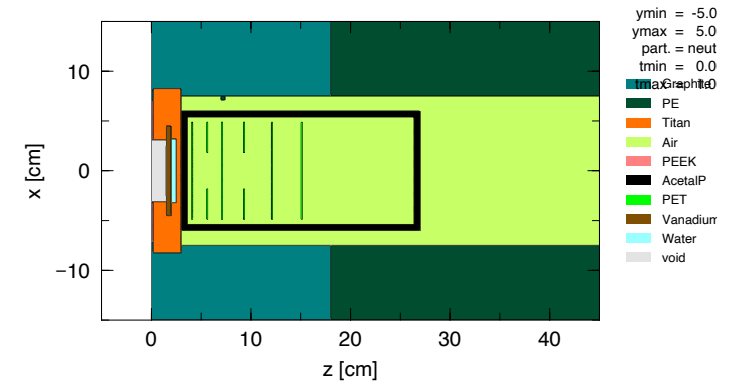
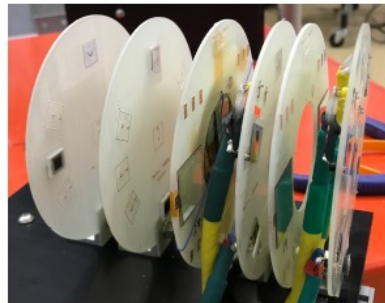
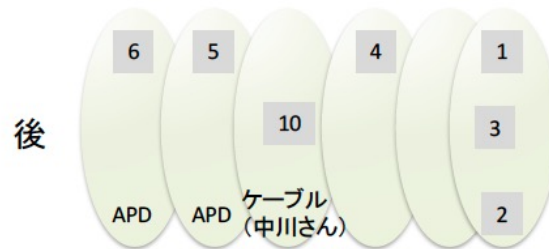
T-cardおよびその後段のボードは  
筑波大にある？



# PHITS calculation for RANS

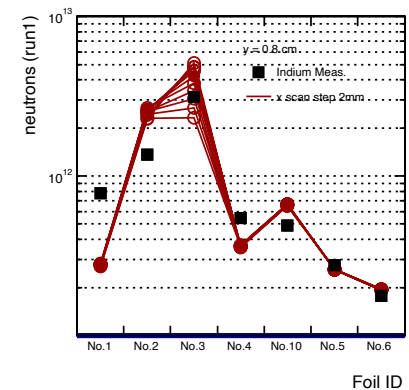
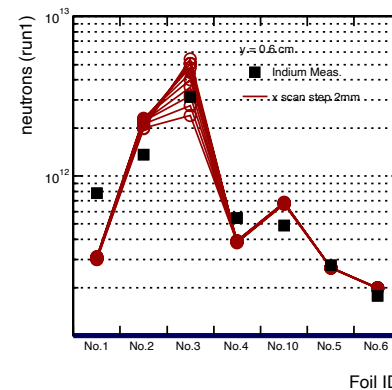
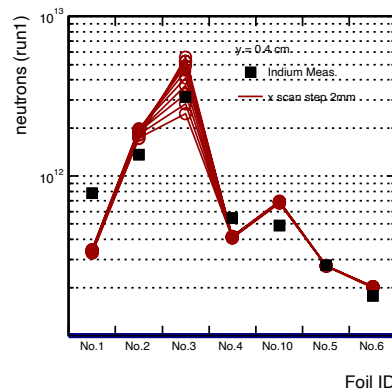
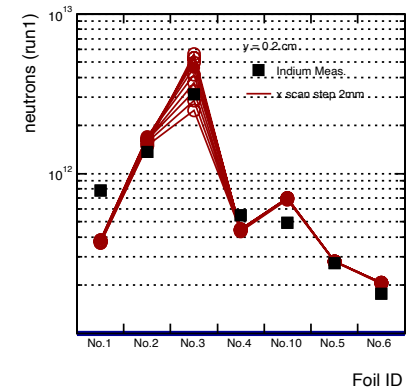
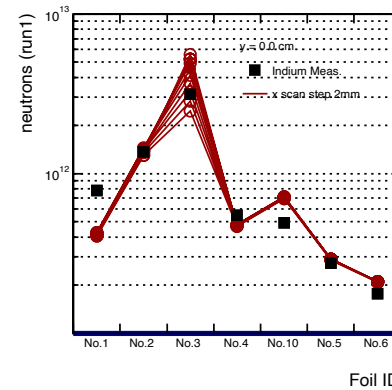
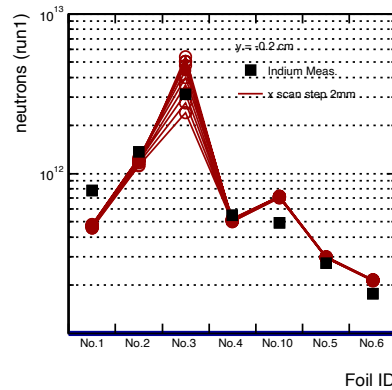
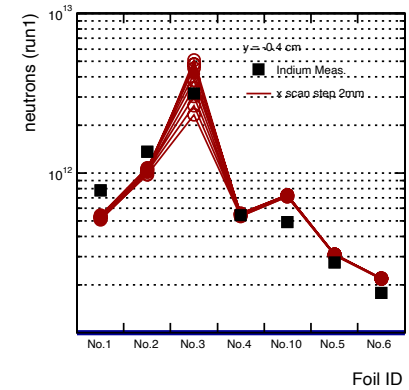
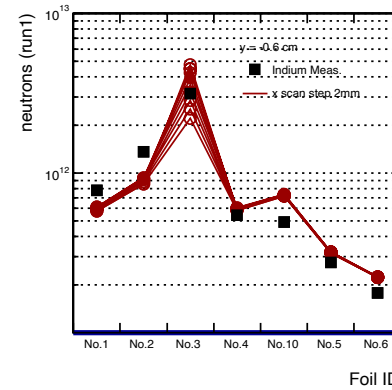
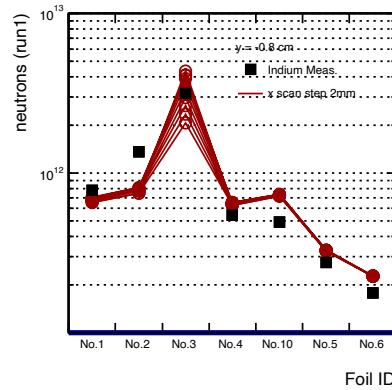
- ◆ Amount of neutrons is estimated from the measurement using Indium foils.
- ◆ Looking at PHITS calculation to see if we can reproduce the numbers.

## ◆ 箔設置場所

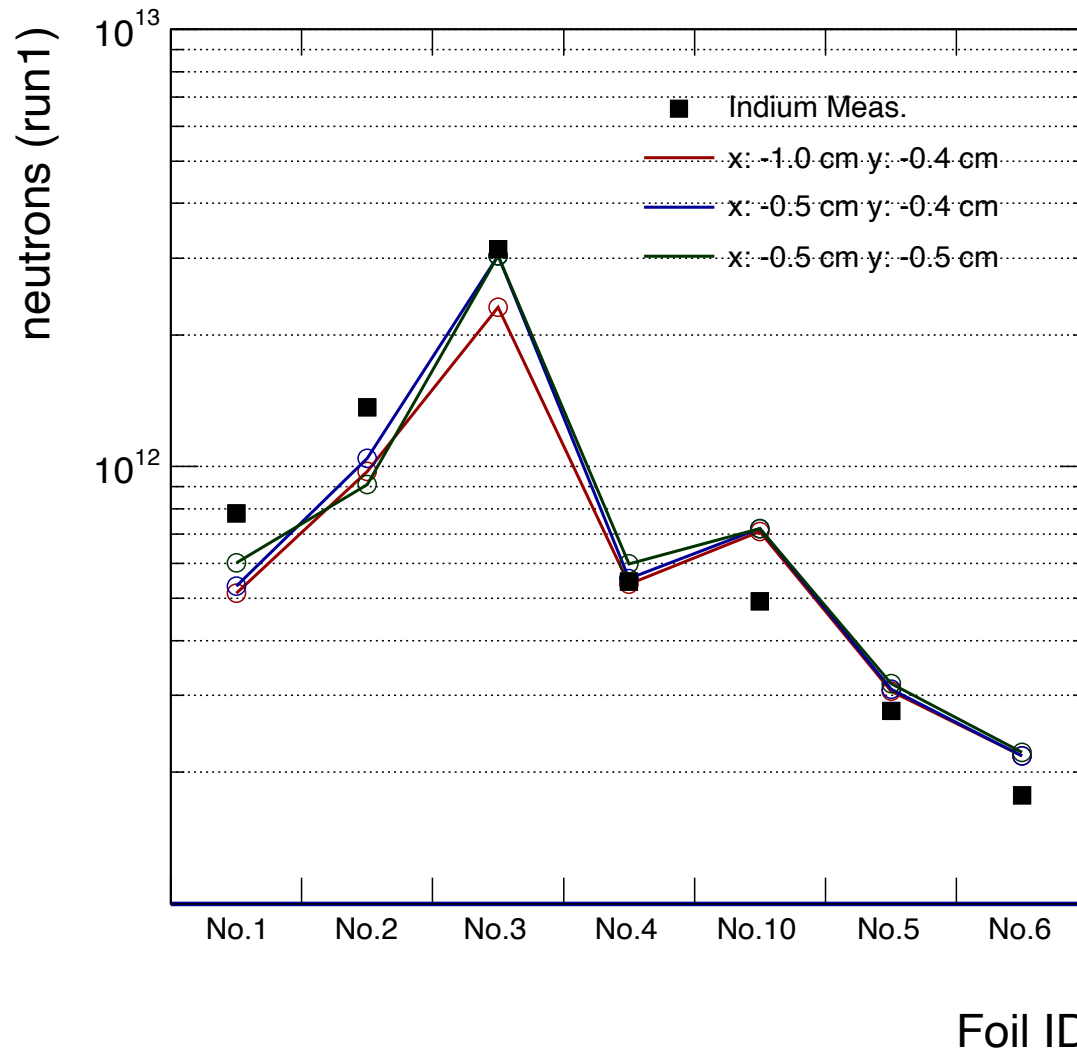


# PHITS calculation for RANS

- ◆ Got information from Wakabayashi-san.
    - Now looking at neutrons with  $E > 335$  keV.
  - ◆ As we don't know exact position of the inserted box, x and y positions are scanned with a step of 2mm.
- $y \sim 0.4$ mm gives good description.



# PHITS calculation for RANS



Inaba-san asked me to provide dose estimates at requested points.

→ Todo: prepare such numbers