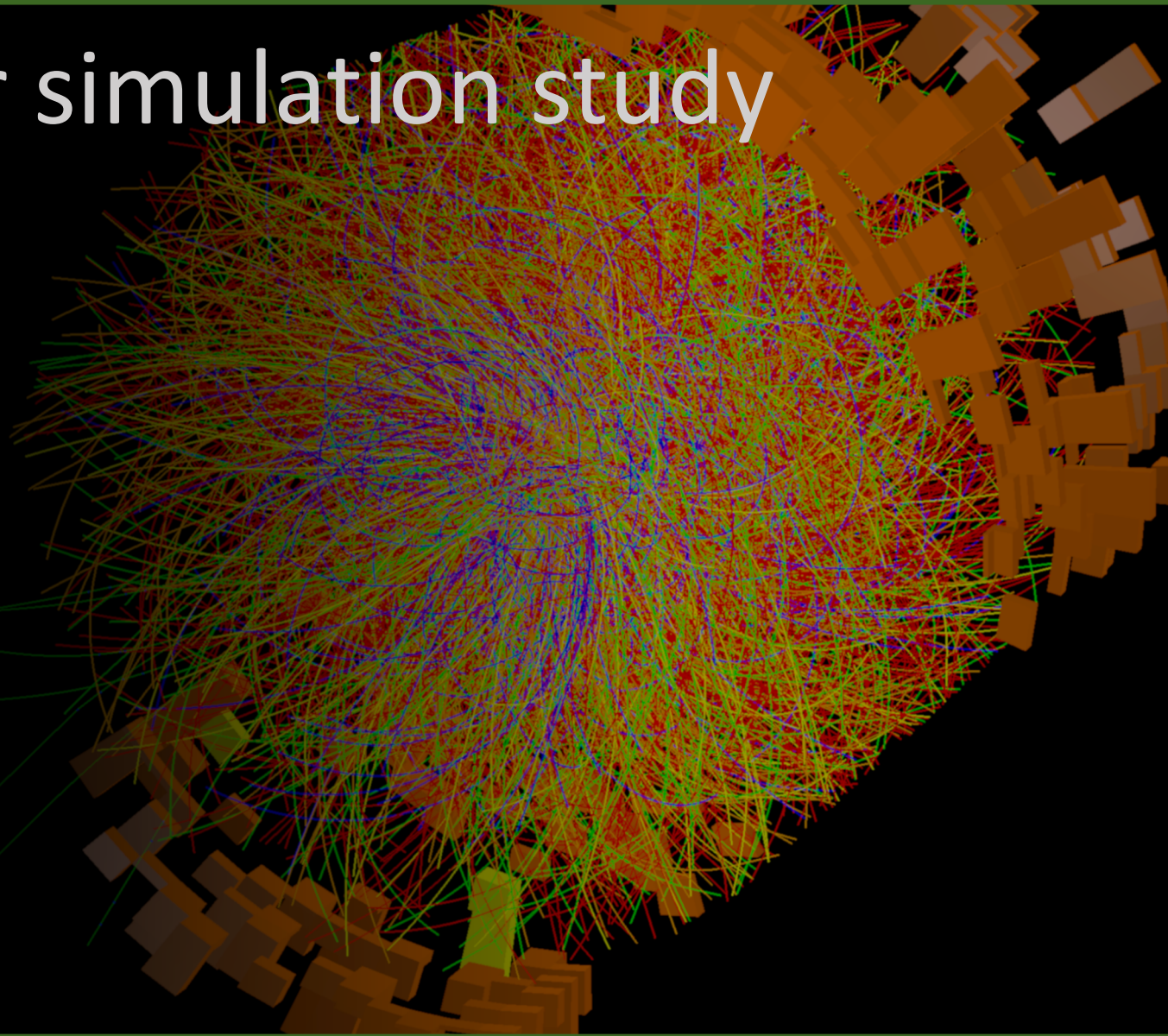


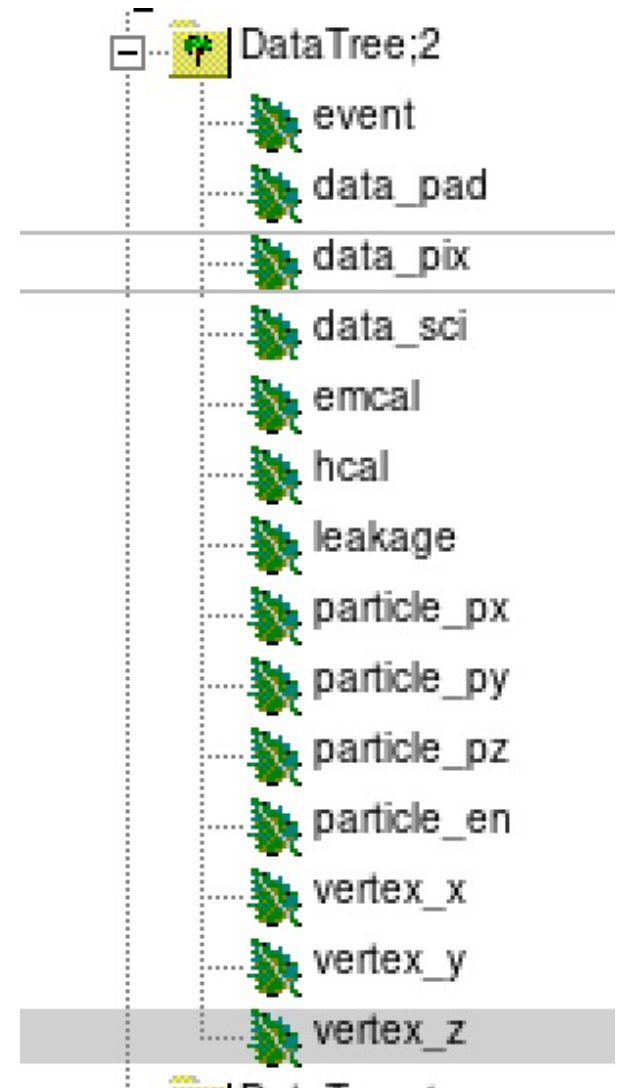
FoCal Geant 4 trigger simulation study

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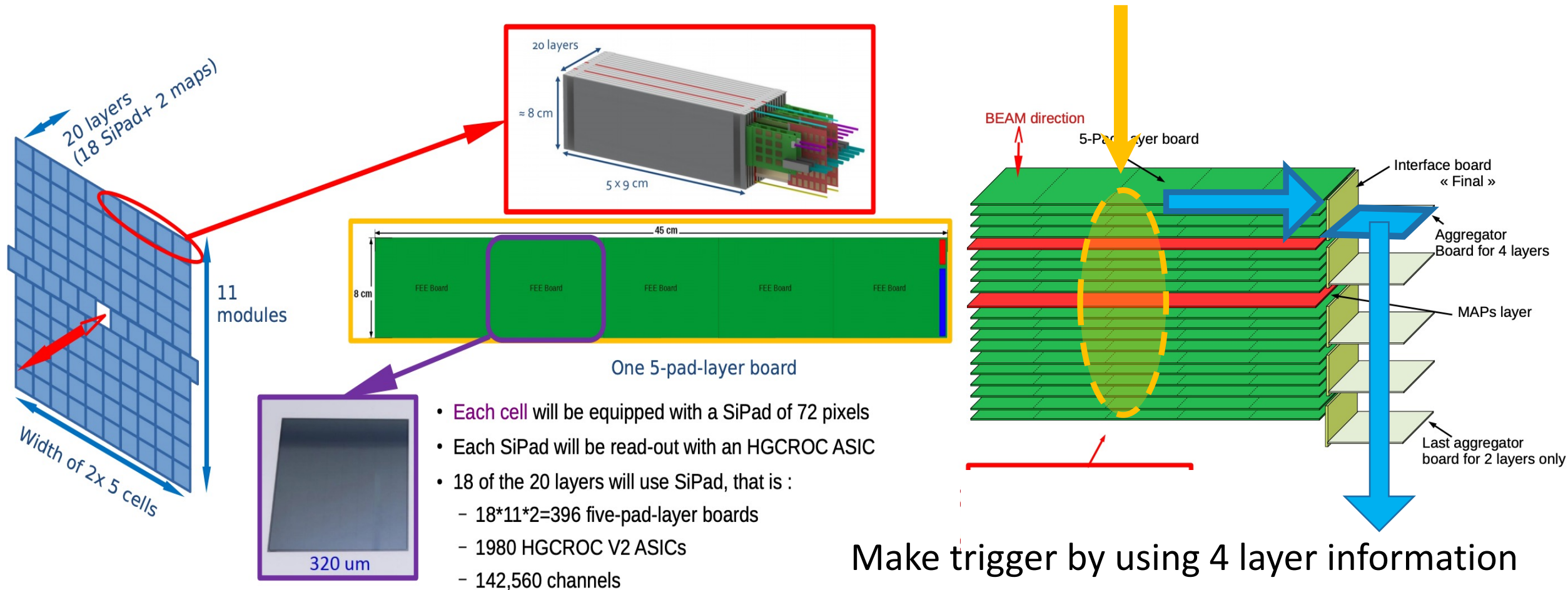


This week progress

1. I got the G4 simulation code from Norbart.
2. I could install Geant4. (it was too complicated)
3. I tested to run the code. (contents of the output root file ->)



Next My work



Make trigger by using 4 layer information
(5 X 4 pads)

→ As Next step I will understand the pad ID layout and its location.

FoCal trigger study plan

- G4 install (done) ← This week
- Run the basic FoCal G4 simulatin code (done) ← This week
- Understand the output information (one week) ← Next week
- Understand the FoCal geometory in G4 Code (a few weeks) ← Next week
- Make a code to extract the information (ID, position, energy) for each aggregator board (2 weeks)
- plan algorithm how to fire trigger use for physics using aggregator bord information (a week) ← May
- inplement the trigger algorithm (1.5 weeks)
- check trigger performance (efficiency / purity) (energy/hitposition/angle/particle/background) (a few weeks) ← Jun
- make a code to convert energy information to real ASIC information (TOT/TOA/AOD) (2 weeks)
- ...