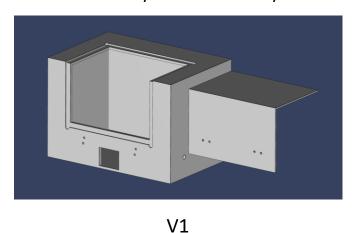
Weekly Report

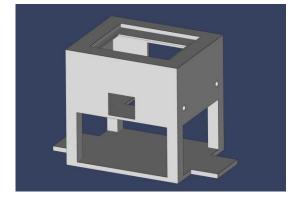
Shudong WANG

Progresses

- Designing ColdBox_V2 for ITk sensor irradiation test
- Sensors need to stay in a cool and dry environment during irradiation test



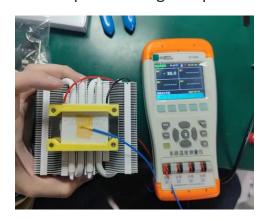




V2

- More compact
- Easy to install it on the test frame
- Use RasPi for remote temperature
 & humidity monitoring

More compact cooling components



- Use 3D-printer to print some prototype for concept validation
- Use top down air cooler instead of tower air cooler (more compact)
- Reached -20 °C when RT==25 °C & no-load running
- Need to reach -30 °C
- Plan to use more powerful fan or bigger radiator and use more powerful thermoelectric cooler

Progresses

• Finished simulation & reconstruction of SM ttbar samples, will email Prof. Zhen Liu to ask for configuration of BSM ttbar samples

Replied part of the IHEP ITk PPB-1 module assembly review

• Continue learning basics of deep learning & PyTorch using Dive into Deep Learning (d2l.ai) because I need to modify the network a little bit in my constituent-based boosted V tagger study.