

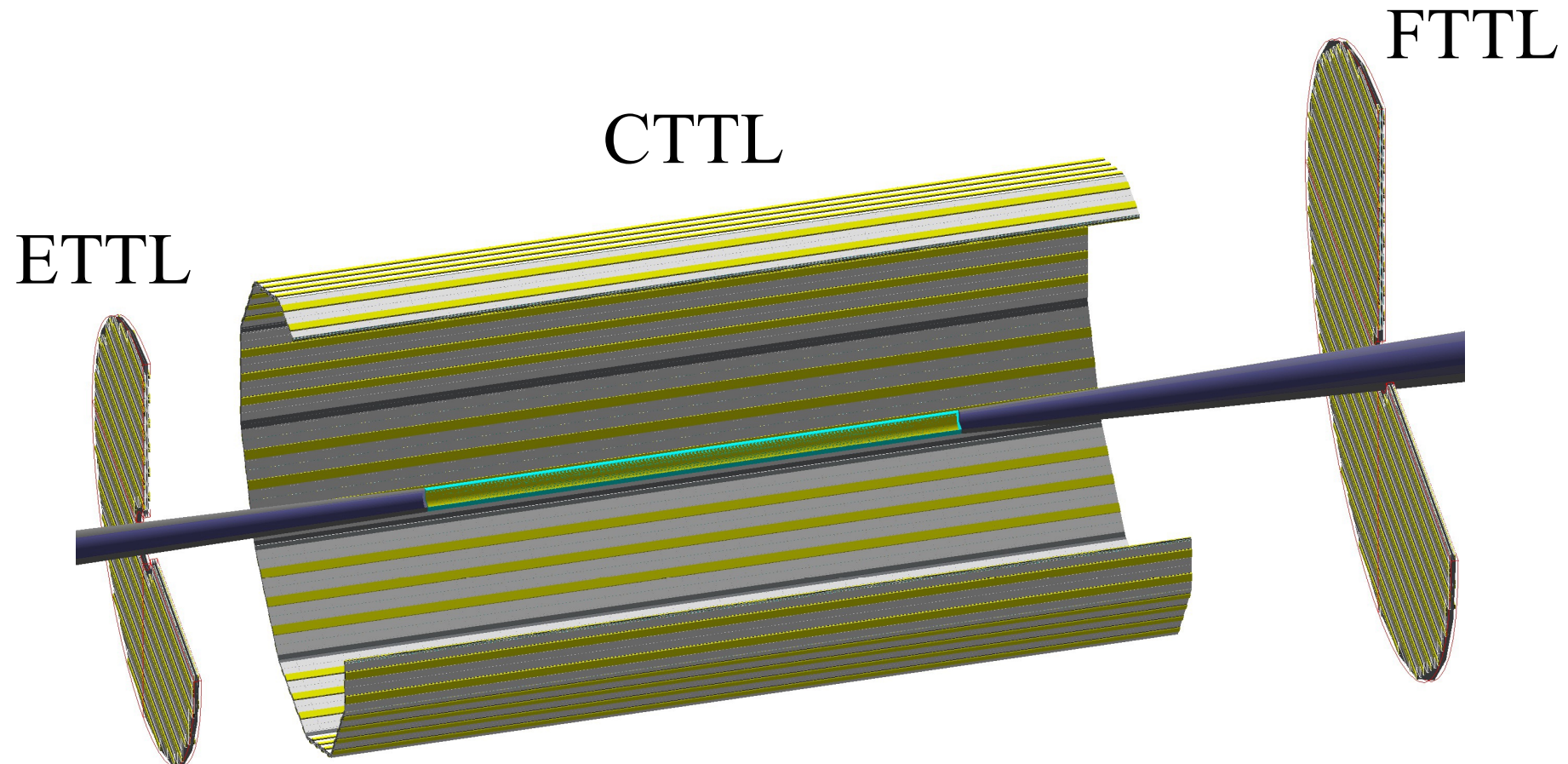
General Discussions

- Physics measurements that require low momentum PID
 - Seek inputs from Exclusive, HF&Jet, and SIDIS PWGs – **in progress**
- Impact on calorimeter and **tracking** performance
 - Work with calorimeter and tracking DWGs – **in progress**
- Complement between Cherenkov and TOF detectors
 - Discuss with Cherenkov PID DWG – **started**
- Integration into ePIC
 - Define the layout and services – **in progress**
- Implement geometry in DD4Hep
 - Work with simulation WG – **started**
- Engage new institutions
 - Presentations at this and upcoming TOF meetings – **in progress**
- R&D towards TDR: eRD112
 - FY22 report and FY23 proposal – **started**

General Discussions

Moving forward in detector modeling, and service for integration and DD4HEP

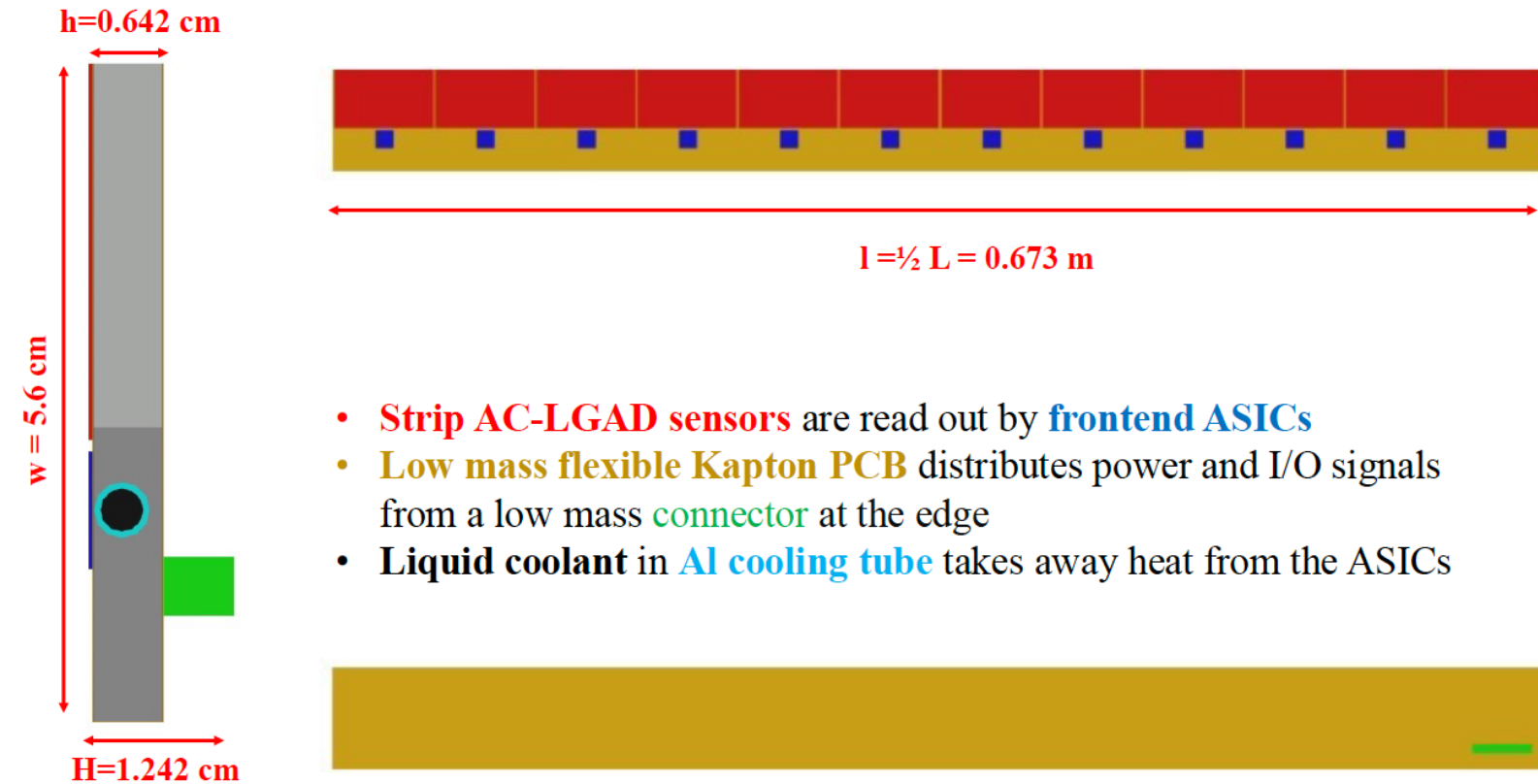
- Barrel: $500\ \mu\text{m} \times 1\ \text{cm}$ strip based on STAR Tracker (ATHENA)
- Endcap: $500\ \mu\text{m} \times 500\ \mu\text{m}$ pixels based on CMS ETL (ECCE)



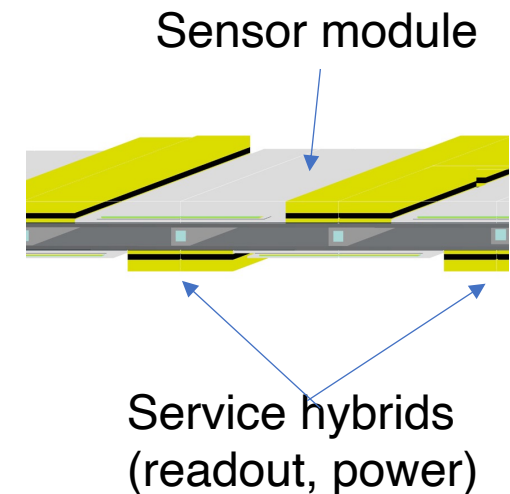
General Discussions

Moving forward in detector modeling, and service for integration and DD4HEP

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- **Strip AC-LGAD sensors** are read out by **frontend ASICs**
- **Low mass flexible Kapton PCB** distributes power and I/O signals from a low mass **connector** at the edge
- **Liquid coolant** in **Al cooling tube** takes away heat from the ASICs



TOF-PID Detector Working Group

A few relevant pointers for TOF-PID Detector Working Group

- Mailing list: eic-projdet-tofpid-1@lists.bnl.gov
 - Subscription information: <https://lists.bnl.gov/mailman/listinfo/eic-projdet-tofpid-1>
- Indico page: <https://indico.bnl.gov/category/414>
- Wiki page: <https://wiki.bnl.gov/eic-project-detector/index.php/TOFPID>
- Default meeting time: Monday 11:30am ET
- Convener's contact info:
 - Constantin Loizides (ORNL) – constantin.loizides@cern.ch
 - Frank Geurts (Rice) – geurts@rice.edu
 - Wei Li (Rice) – wl33@rice.edu
 - Zhenyu Ye (UIC) – yezhenyu@uic.edu
- eRD112:
 - Mailing list: <https://mailman.rice.edu/mailman/listinfo/lgads-eic>
 - Indico page: <https://indico.bnl.gov/category/323/>
 - Default meeting time: Wednesday 11:30am ET