

SW activities discussion

IDEA Dual-Readout meeting - 26/6/2020

FCCSW Meeting follow-up

- Our activities have been presented to the FCCSW group on 5/6/2020, [link](#)
They have been received very positively by the conveners and we identified at least 3 action items towards FCCSW.
 1. Migrating geometry to DD4HEP for a full simulation within FCCSW.
 2. Making our custom EDM compliant to EDM4HEP so that our data from full-sim can be made available within FCCSW and work on reconstruction can start there.
 3. Investigating the possibility of making the digitization module a standard package within FCCSW (probably a migration to C++ is needed).

RD_FA Simulation Meeting and Integration with sub detectors

- The last RD_FA sim meeting took place on 18/6/2020, [link](#)
It would be good to have a more international participation, volunteers to present a summary of dual-readout activities at the next meeting are welcome.
1 new action item:
 1. We developed a Geant4 simulation of the pre-shower and the drift chamber. INFN groups (Lecce and Bari) are willing to start integrating these sub detectors with the calo. Any volunteer to follow this work?
- American groups expressed strong interest in the possibility to create an IDEA Detector option exploiting dual-readout crystals in front of the calo.
 2. They are available to create this option starting from our code, but a mandatory request is to be able to reconstruct tracks. So points 1 and 2 should go in parallel. Any volunteer to follow this work?
 3. We are invited to present on this crystal option to the CEPC Crystal ECAL workshop (July 22-24 [link](#)). Any volunteer to present the status of the standalone IDEA calorimeter (baseline option)?