

CONCLUSIONS AT WP5 GM (FOLLOWING LUCIE & VITALY'S BULLETED LIST)

Main Achievements

- ⊕ Inserted 2 small gap B2B C+RWELL detector geometry in DD4HEP framework for SCT detector simulation
- ⊕ Test & visualization tools passed
- ⊕ Geant4 Hits generated and saved
- ⊕ Started soft pion studies: momentum threshold for hits in C+RWELL
- ⊕ First version of resistive stage simulation ready

Objectives for coming year

- ⊕ Dedicated readout type for sensitive detector C+RWELL
- ⊕ Simplified Digitization module
- ⊕ Detector Response Parametrization: Test & Validate resistive simulation & Insert in DD4HEP framework
- ⊕ Include Background in simulation studies
- ⊕ Vertex reconstruction efficiency and resolution

First deliverable and milestone in August 2021 (M18)

- ⊕ Task 5.3 Status report on the software for the SCT detector.