

FCC activities in Clermont (2023):

- Contributions to mid-term report: two analysis notes:

- Vertexing performance driven by $b \rightarrow s$ transitions (T. Miralles, SM).
- b-tagging with exclusive b-hadron decays, application to Z pole observables R_b and $AFB(bb)$ (Lars Roehrig, Romain Madar, Kevin Kroeninger (TUDO), SM)
- Flavour physics section edition (SM).

- Contributions to DRD

- Electromagnetic calorimeter with grains of crystals in coll. with IJCLab.
- R&T IN2P3. Involves Hervé Chanal (MCF), Magali Magne and David Picard (IR Electronics), Mike Yeresko (Post-doc on SoLid), SM. On best effort basis so far.
- Status: design of a test bench for the prototype to be studied with cosmic muons.
- Simulation studies on Pulse Shape Discrimination with crystal detectors (Jacques Lefrançois, Mike Yeresko, Herve Chanal, SM). Proof of concept under way.

- Participation to FCC and ECFA future events.

- ECFA: 1 to 3 participants.
- FCC Physics and General: 2-4 participants.

- FCC Jamboree:

- No internship this year. Clermont Lab welcomes Beauty 2023 that very week.