Contact patrizia.azzi@cern.ch & sylvie.braibant@cern.ch

new mailing list: rd-fcc-simana@lists.infn.it   (you can self subscribe)

IDEA SOFTWARE & SIMULATION

26/11/2020

FCC-ee: Case studies & detector requirements from Physics

○ Case studies being collected and organized for FCC-ee.
○ PPC information pages available here:
  ○ https://hep-fcc.github.io/FCCeePhysicsPerformance/
  ○ Find information about samples, tools, gen cards.
  ○ « case studies » specific pages being populated as well as the work starts.

○ Some interests collected from this group (correct me if wrong):
  ○ Exclusive B-decay: Marco Scodeggio (FE)
  ○ Long Lived Particles sensitivity: Valentina Diolaiti, Sylvie Braibant (BO), PA (PD)
  ○ Search for ALPS: Lorenzo Pezzotti, Giacomo Polesello (PV)

Calls - External Funds

* **AIDA-INNOVA** assigned, grant agreement preparation:
    * several activities
    * P. Giacomelli suggested organization of « IDEA » structure with responsabile for task and INFN section
    * Fraction in IDEA is synergic with RD-FCC

* **PRIN:** call open today. Franco B. will summarize the status

* **What Next: WN_CC3M** call for outreach program. Ongoing. Involves both RD-FCC and RD_MUCOLL.
    * First short video trailer to invite people to sign up to visit the lab will be out on the 27th of November.
    * Web site will be launched as well
    * More colleagues are discovering RD_FCC through this, so it's outreach in evry direction :-)

Simulation & Software studies - FULL SIMULATION STATUS

* **Drift Chamber:**
    * clustering studies in progress
* **Dual readout Calorimeter:**
    * Addition of crystal ECAL in Geant Fullsim (MI, PV)
* **Muon Detector simulation:**
    * ???
* **Silicon Vertex Simulation:**
    * ??? need optimization studies too
* **IDEA detector:**
    * merging of DC+Calorimeter still ongoing
    * work on interface Geant output ->EDM4Hep starting soon
* **Fastsim:**
    * Validation & development of tracking with cov matrix in Delphes
* **Reconstruction code, algorithms:**
    * tau ID in DR using DNN approach ongoing
    * Particle Flow development needs to start (AIDA package)

IDEA Simulation and Analysis Meetings

- *Possibly bi-weekly. Agenda on INFN Indico. Thursday morning 9-11*
- *New Mailing list with INFN rd-fcc-simana@lists.infn.it*

FCC-ee: Meetings

- Software Meeting FCCSW: Venerdi mattina (bi-settimanale) 9:30-11:00
  - Agenda di domani qui: https://indico.cern.ch/event/979151/
  - Mailing list: fcc-experiments-sw-dev@cern.ch
- Key4HEP Framework Meeting: Martedi mattina 9:30

- FCC-ee Physics Meetings: Mensile, Lunedi Pomeriggio 15:00-17:00
  - NEXT NOV 30TH: https://indico.cern.ch/event/966926/

- NEW Physics Performance Meetings: Mensile, Lunedi pomeriggio 15:00-17:00
  - Next meeting 7/12/2020 https://indico.cern.ch/event/965346/

Iscrizione alla mailing list di FCC-ee detector & experiments tramite la pagina web: http://fcc-ee.web.cern.ch/ —> Contact/Join us

CEPC: Meetings

✳CEPC Mailing list : cepc-physdet@maillist.ihep.ac.cn
✳Detector and simulation meetings ~weekly Mercoledi mattina 8:00-11:00