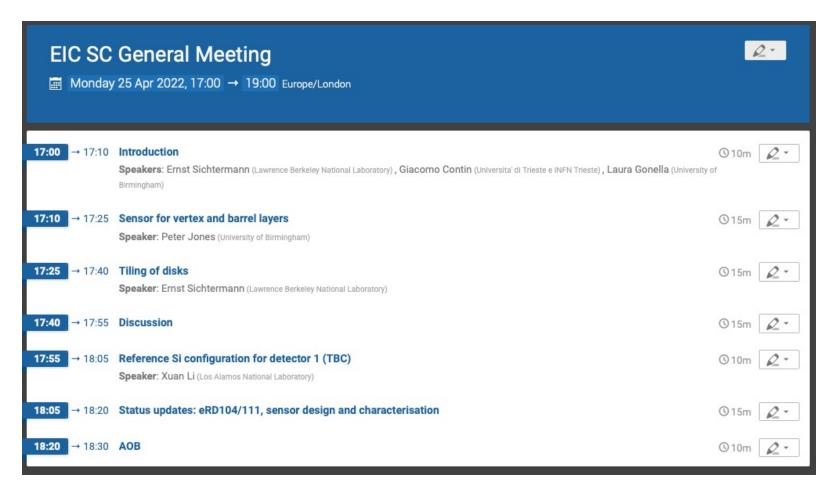
EIC SC general meeting

G. Contin, <u>L. Gonella</u>, E. Sichtermann 25 April 2022

Today's agenda

 Today's meeting is largely dedicated to presentations and discussions on the sensor configuration/size for vertex layers (i.e. ITS3 sensor), barrel layers and disks (i.e. EIC Large Area Sensor), including implications to the overall detector layout.



Activities of the EIC SC over the next 3-6 months

Large Area Sensor

- Define LAS (preliminary) requirements to enable sensor design work.
 - Requirements will be refined later this year when the yield of 65 nm process is assessed with the ITS3 ER1.
- What sensor size(s) would be optimal to tile staves and discs? What is the impact
 of sensor size on design work, detector
 layout/material/acceptance/performance? How to build modules from sensors?
- Discussed today

Sensor design and characterisation

- Integrate more EIC SC designers institutes into the ITS3 WP2.
- Work on the agreements necessary to cooperate with ITS3/ALICE and use of their sensor.
- Start work on the LAS asap after ITS3 ER1 submission (scheduled for May) targeting submission in Q1-23.
- Contribute to the characterisation of MLR1 APTS/DPTS structures → pending distribution of DAQ setups by ITS3.

Activities of the EIC SC over the next 3-6 months

• eRD111/104

- Review milestones and schedule for FY22 in light of reduced budget and delayed start of R&D programme.
- Map activities for FY23 (and beyond) onto milestones and schedule, share tasks, allocate resources in preparation for submission of proposals by September.

Transition to EIC Detector-1

- The EIC SC will play a fundamental role in the optimisation of the Si vertex and tracking detector towards Detector 1 (layout, integration, readout, etc.).
- The EIC SC needs to be well integrated within the EIC Detector 1 activities/WG, in particular within the Tracking WG.
- Please register to the mailing list and attend the weekly meetings.
 - https://lists.bnl.gov/mailman/listinfo/eic-projdet-tracking-l
- Detailed discussions in the EIC SC general meetings will provide inputs and feedback for the Tracking WG meeting.
- Kick-off meeting: Wednesday 27th April at 12 pm EST: https://indico.bnl.gov/event/15489/

Meeting frequency and format

- To progress the activities of the EIC SC as required by the project schedule, the general meeting will happen by-weekly, with meetings dedicated to a specific topic.
 - Brief updates on other topics will also be scheduled.
- Next meetings:
 - Date: 9th May, Topic: eRD104 and eRD111
 - Date: 23rd May, Topic: Sensor design & characterisation