









EIC SC general meeting

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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**.

EIC SC General Meeting			
Monday 25 Apr 2022, 17:00 → 19:00 Europe/London			
17:00 → 17:10	Introduction Speakers: Ernst Sichtermann (Lawrence Berkeley National Laboratory), Giacomo Contin (Universita' di Trieste e INFN Trieste), Laura Gonella (University of Birmingham)	10m	
17:10 → 17:25	Sensor for vertex and barrel layers Speaker: Peter Jones (University of Birmingham)	15m	
17:25 → 17:40	Tiling of disks Speaker: Ernst Sichtermann (Lawrence Berkeley National Laboratory)	15m	
17:40 → 17:55	Discussion	15m	
17:55 → 18:05	Reference Si configuration for detector 1 (TBC) Speaker: Xuan Li (Los Alamos National Laboratory)	10m	
18:05 → 18:20	Status updates: eRD104/111, sensor design and characterisation	15m	
18:20 → 18:30	AOB	10m	

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**