

Subject: [Eic-projdet-tic-l] TIC meeting , May 20, 2024 (TDR effort, progress (Calorimetry); ASTROPIX news) - main outcome

From: Silvia Dalla Torre via Eic-projdet-tic-l <eic-projdet-tic-l@lists.bnl.gov>

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Dear Colleagues,

this e-mail is to underline the main outcomes of the May 20 TIC meeting, dedicated to (i) TDR effort, progress (calorimetry) and (ii) ASTROPIX news.

The careful reports by the speakers have been appreciated.

(i) TDR effort, progress (calorimetry)

The effort planning in the calorimeter DSCs is continuously improving.

The report this time includes 5 devices, while barrel HCal couldn't contribute (sPHENIX run duties). The report is based on the WG meeting on May 15.

Highlights:

- backward ECal: The irradiation campaign at UC Davis took place (May 15-16).

It includes SiPMs and FEE (backward ECal). Further considerations in view of the SiPM choice presented.

- Barrel ECal: A very accurate and detailed planning now available. The May week of testbeam could not

take place (no beam delivered). It has been rescheduled for June.

- Forward ECal: Progress in Light Guide design and detector integration.

- Backward HCal: UIUC joining efforts.

- Forward HCal: insert testbeam in STAR ongoing.

- A first version of the LED calibration system is under test at CERN.

(ii) AstroPix news

AstroPix3 and quad-chip AstroPix3 (to validate daisy chain approach) under test.

AstroPix4 for progressing (smaller size) under validation. To be noticed:

Individual pixel readout with individual hit buffer.

Next steps: AstroPix5 full size. It will be the first fabrication with a new foundry: AMS.

Chips expected by November 2024. AstroPix6 will follow, expected with minimal modifications.

A board to host a set of AstroPix5 as needed for the application in the barrel calorimeter realized.

If this notes need corrections/integration, please, write me back.

Thank you.

Best greetings, Silvia

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