

# **4th BIC In-person Workshop**

## **Report of Contributions**

Contribution ID: 2

Type: **not specified**

## **BIC Progress and Plans Overview**

*Wednesday 9 April 2025 09:00 (40 minutes)*

**Presenter:** METCALFE, Jessica (Argonne National Laboratory)

**Session Classification:** Management

Contribution ID: 3

Type: **not specified**

## Wafers, Modules, & Staves

*Wednesday 9 April 2025 09:40 (30 minutes)*

**Presenter:** JADHAV, Manoj (Argonne National Laboratory)

**Session Classification:** Management

Contribution ID: 4

Type: **not specified**

## Mechanics & Sectors

*Wednesday 9 April 2025 10:30 (30 minutes)*

**Presenter:** JOOSTEN, Sylvester (Argonne National Laboratory)

**Session Classification:** Management

Contribution ID: 5

Type: **not specified**

## ESB & DAQ

*Wednesday 9 April 2025 11:00 (30 minutes)*

**Presenter:** PAPANDREOU, Zisis (University of Regina)

**Session Classification:** Management

Contribution ID: 6

Type: **not specified**

## System Test (& Simulations)

*Wednesday 9 April 2025 11:30 (30 minutes)*

**Presenter:** ZUREK, Maria (Argonne National Laboratory)

**Session Classification:** Management

Contribution ID: 7

Type: **not specified**

## Wafer/Chip Testing Progress & Plans

*Thursday 10 April 2025 09:40 (20 minutes)*

**Presenter:** LIM, Sanghoon (Pusan National University)

**Session Classification:** BIC Plenary

Contribution ID: 8

Type: **not specified**

## **Discussion: Wafer production testing, review plans (chip vs wafer)**

**Session Classification:** AstroPix & Wafers



Contribution ID: 9

Type: **not specified**

## AstroPix v5 Design Overview

*Thursday 10 April 2025 09:20 (20 minutes)*

**Presenter:** STRIEBIG, Nicolas (member@kit.edu;employee@kit.edu)

**Session Classification:** BIC Plenary

Contribution ID: **10**

Type: **not specified**

## **AstroPix Overall Plans and Schedule (NASA, ComPair, AMEGO-X)**

*Thursday 10 April 2025 09:00 (20 minutes)*

**Presenter:** CAPUTO, Regina (NASA GSFC)

**Session Classification:** BIC Plenary

Contribution ID: **11**

Type: **not specified**

## Overview of AstroPix performance

*Wednesday 9 April 2025 13:00 (20 minutes)*

**Presenter:** VIOLETTE, DANIEL P. (GSFC-NASA)

**Session Classification:** Modules

Contribution ID: 12

Type: **not specified**

## Module/Stave Design

**Presenter:** JADHAV, Manoj (Argonne National Laboratory)

**Session Classification:** Modules

Contribution ID: **13**

Type: **not specified**

## AstroLinx

*Thursday 10 April 2025 10:30 (20 minutes)*

**Presenters:** BEAUCHAMP, Blake (member@okstate.edu;staff@okstate.edu); SHILDT, Gregory Michael

**Session Classification:** BIC Plenary

Contribution ID: **14**

Type: **not specified**

## **9-chip PCB testing**

*Wednesday 9 April 2025 12:40 (20 minutes)*

**Presenter:** KIM, Bobae (Argonne National Laboratory)

**Session Classification:** Modules

Contribution ID: 15

Type: **not specified**

## **Discussion: PDR and future plans**

**Session Classification:** Modules

Contribution ID: 16

Type: **not specified**

## **Discussion: AstroPix PDR and future plans**

**Session Classification:** AstroPix & Wafers



Contribution ID: 17

Type: **not specified**

## Wire bond map, wire bondability, Handling

*Wednesday 9 April 2025 12:00 (20 minutes)*

**Author:** MARTINEZ-MCKINNEY, Forest (UCSC)

**Presenters:** MARTINEZ-MCKINNEY, Forest (UCSC); AFFOLDER, Kirsten (UCSC); FADEYEV, Vitaliy (SCIPP, UCSC)

**Session Classification:** Modules

Contribution ID: **18**

Type: **not specified**

## Global Design

**Session Classification:** Mechanics

Contribution ID: **19**

Type: **not specified**

## Test Articles

**Session Classification:** BIC Plenary

Contribution ID: 20

Type: **not specified**

## Fiber testing

*Wednesday 9 April 2025 12:50 (20 minutes)*

**Presenter:** PAPANDREOU, Zisis (University of Regina)

**Session Classification:** ESB & DAQ

Contribution ID: 21

Type: **not specified**

## **PDR and future plans**

**Session Classification:** Mechanics

Contribution ID: 22

Type: **not specified**

## ESB Design and Interfaces

**Presenter:** PAPANDREOU, Zisis (University of Regina)

**Session Classification:** ESB & DAQ

Contribution ID: 23

Type: **not specified**

## ESB Cooling

*Wednesday 9 April 2025 12:00 (10 minutes)*

**Presenter:** SHEFALI, . (University of Manitoba)

**Session Classification:** ESB & DAQ

Contribution ID: 24

Type: **not specified**

## ETC Design Interfaces

*Wednesday 9 April 2025 12:30 (20 minutes)*

**Presenter:** CAPUTO, Regina (NASA GSFC)

**Session Classification:** ESB & DAQ



Contribution ID: 25

Type: **not specified**

## HGCROC Readout

*Wednesday 9 April 2025 12:10 (20 minutes)*

**Presenter:** NOVITZKY, Norbert (ORNL)

**Session Classification:** ESB & DAQ

Contribution ID: 26

Type: **not specified**

## **ESB & DAQ PDR and future plans (deliverables)**

**Session Classification:** ESB & DAQ

Contribution ID: 27

Type: **not specified**

## Simulations

**Session Classification:** Topic 2

Contribution ID: **28**

Type: **not specified**

## Interface Document Review

**Session Classification:** Topic 2

Contribution ID: 29

Type: **not specified**

## **Review of upcoming deliverables**

**Session Classification:** Topic 2

Contribution ID: 30

Type: **not specified**

## System Testing: R&D Program Accomplishments

*Thursday 10 April 2025 10:50 (20 minutes)*

R&amp;D/Testing Goals

High-level Accomplishments

Focus on AstroPix-SciFi Integration and Bench Tests

The Beam Test Results will be covered in the next talk

How the reviewer comments have been addressed?

**Presenter:** KIM, Bobae (Argonne National Laboratory)**Session Classification:** BIC Plenary

Contribution ID: **31**

Type: **not specified**

## **Beam Tests: Accomplishments from FNAL Beam Test FY24**

*Thursday 10 April 2025 11:10 (20 minutes)*

**Presenter:** KLEST, Henry (Argonne National Laboratory)

**Session Classification:** BIC Plenary

Contribution ID: 32

Type: **not specified**

## Beam Tests: KEK and CERN Tests Accomplishments

*Thursday 10 April 2025 11:30 (20 minutes)*

What was the goal of the beam test?  
What have you learned?  
What are the things still to be accomplished

**Presenter:** BOK, Jeongsu (Pusan National University)

**Session Classification:** BIC Plenary



Contribution ID: 33

Type: **not specified**

## **System Testing PDR and future plans (deliverables)**

**Presenter:** ZUREK, Maria (Argonne National Laboratory)

**Session Classification:** System Test & Test Beam

Contribution ID: 34

Type: **not specified**

## **Schedule and Deliverable Discussion & Closeout**

*Friday 11 April 2025 11:30 (30 minutes)*

Contribution ID: 35

Type: **not specified**

## **BIC Reconstruction Overview and Recent Updates**

*Wednesday 9 April 2025 13:10 (20 minutes)*

Overview of how BIC is implemented in the Simulations, Digitized and Reconstructed  
Update of the implementation of the digitization and reconstruction (SiPM and HGCROC)

**Presenter:** KIM, Minho (Argonne National Laboratory)

**Session Classification:** ESB & DAQ

Contribution ID: 36

Type: **not specified**

## AI/ML Reconstruction for BIC

**Session Classification:** Simulations

Contribution ID: 37

Type: **not specified**

## PDR Deliverables

**Session Classification:** Simulations

Contribution ID: **38**

Type: **not specified**

## Handling, Carrier tools

*Wednesday 9 April 2025 12:20 (20 minutes)*

**Author:** AFFOLDER, Kirsten (UCSC)

**Presenters:** MARTINEZ-MCKINNEY, Forest (UCSC); AFFOLDER, Kirsten (UCSC); FADEYEV, Vitaliy (SCIPP, UCSC)

**Session Classification:** Modules

Contribution ID: 39

Type: **not specified**

## Wafers & Modules

*Friday 11 April 2025 10:30 (15 minutes)*

**Presenter:** JADHAV, Manoj (Argonne National Laboratory)

**Session Classification:** Management

Contribution ID: 40

Type: **not specified**

## Mechanics

*Friday 11 April 2025 10:45 (15 minutes)*

**Presenter:** JOOSTEN, Sylvester (Argonne National Laboratory)

**Session Classification:** Management



Contribution ID: 41

Type: **not specified**

## ESB & DAQ

*Friday 11 April 2025 11:00 (15 minutes)*

**Presenter:** PAPANDREOU, Zisis (University of Regina)

**Session Classification:** Management

Contribution ID: 42

Type: **not specified**

## System Test & Test Beam & Simulations

*Friday 11 April 2025 11:15 (15 minutes)*

**Presenter:** ZUREK, Maria (Argonne National Laboratory)

**Session Classification:** Management

Contribution ID: 43

Type: **not specified**

## Coffee/Tea

Contribution ID: 44

Type: **not specified**

## Coffee/Tea