

5th BIC In-person Workshop

Report of Contributions

Contribution ID: 2

Type: **not specified**

BIC Progress and Plans Overview

Tuesday 16 June 2026 09:00 (40 minutes)

Presenter: METCALFE, Jessica (Argonne National Laboratory)

Session Classification: BIC Workshop

Contribution ID: 3

Type: **not specified**

Wafers, Modules, & Staves

Tuesday 16 June 2026 09:40 (30 minutes)

Presenter: JADHAV, Manoj (Argonne National Laboratory)

Session Classification: BIC Workshop

Contribution ID: 4

Type: **not specified**

Mechanics & Sectors

Tuesday 16 June 2026 10:30 (30 minutes)

Presenter: JOOSTEN, Sylvester (Argonne National Laboratory)

Session Classification: BIC Workshop

Contribution ID: 5

Type: **not specified**

ESB & DAQ

Tuesday 16 June 2026 11:00 (30 minutes)

Presenter: PAPANDREOU, Zisis (University of Regina)

Session Classification: BIC Workshop

Contribution ID: 6

Type: **not specified**

System Test (& Simulations)

Tuesday 16 June 2026 11:30 (30 minutes)

Presenter: ZUREK, Maria (Argonne National Laboratory)

Session Classification: BIC Workshop

Contribution ID: 7

Type: **not specified**

Wafer/Chip Testing Progress & Plans

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

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)

Presenter: CAPUTO, Regina (NASA GSFC)

Session Classification: BIC Plenary

Contribution ID: 11

Type: **not specified**

Overview of AstroPix performance

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

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

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

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

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

Presenter: SHEFALI, . (University of Manitoba)

Session Classification: ESB & DAQ

Contribution ID: 24

Type: **not specified**

ETC Design Interfaces

Presenter: CAPUTO, Regina (NASA GSFC)

Session Classification: ESB & DAQ

Contribution ID: 25

Type: **not specified**

HGCROC Readout

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

R&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

Presenter: KLEST, Henry (Argonne National Laboratory)

Session Classification: BIC Plenary

Contribution ID: 32

Type: **not specified**

Beam Tests: KEK and CERN Tests Accomplishments

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

Contribution ID: 35

Type: **not specified**

BIC Reconstruction Overview and Recent Updates

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

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

Presenter: JADHAV, Manoj (Argonne National Laboratory)

Session Classification: BIC Workshop

Contribution ID: 40

Type: **not specified**

Mechanics

Presenter: JOOSTEN, Sylvester (Argonne National Laboratory)

Session Classification: BIC Workshop

Contribution ID: 41

Type: **not specified**

ESB & DAQ

Presenter: PAPANDREOU, Zisis (University of Regina)

Session Classification: BIC Workshop

Contribution ID: 42

Type: **not specified**

System Test & Test Beam & Simulations

Presenter: ZUREK, Maria (Argonne National Laboratory)

Session Classification: BIC Workshop

Contribution ID: 43

Type: **not specified**

Coffee/Tea

Contribution ID: 44

Type: **not specified**

Coffee/Tea