

# **US-Japan workshop for AC-LGAD and testbeam**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Status from Fermilab

*Monday 24 February 2025 10:00 (30 minutes)*

**Presenter:** APRESYAN, Artur (Fermi National Accelerator Lab. (US))

**Session Classification:** Status and Plan from each institute

Contribution ID: 2

Type: **not specified**

## Status of BNL

*Monday 24 February 2025 10:40 (30 minutes)*

**Presenter:** TRICOLI, Alessandro (Brookhaven National Laboratory (US))

**Session Classification:** Status and Plan from each institute

Contribution ID: 3

Type: **not specified**

## Status from UCSC

*Monday 24 February 2025 11:20 (30 minutes)*

**Presenter:** Dr MAZZA, Simone Michele (University of California,Santa Cruz (US))

**Session Classification:** Status and Plan from each institute

Contribution ID: 4

Type: **not specified**

## Status from Japan

*Monday 24 February 2025 12:00 (30 minutes)*

**Presenter:** NAKAMURA, Koji (KEK High Energy Accelerator Research Organization (JP))

**Session Classification:** Status and Plan from each institute

Contribution ID: 5

Type: **not specified**

## **EIC status**

**Session Classification:** Status and Plan from each institute

Contribution ID: 6

Type: **not specified**

## **EIC status**

*Monday 24 February 2025 14:00 (30 minutes)*

**Session Classification:** AC-LGAD sensor development and Radiation Tolerance

Contribution ID: 7

Type: **not specified**

## **Summary of Test beam studies of AC-LGADs from HPK and BNL**

*Monday 24 February 2025 15:10 (20 minutes)*

**Presenter:** DUTTA, Irene (Fermi National Accelerator Lab. (US))

**Session Classification:** AC-LGAD sensor development and Radiation Tolerance



Contribution ID: 8

Type: **not specified**

## Recent measurements at BNL

*Monday 24 February 2025 15:40 (20 minutes)*

**Presenter:** TRICOLI, Alessandro (Brookhaven National Laboratory (US))

**Session Classification:** AC-LGAD sensor development and Radiation Tolerance

Contribution ID: 9

Type: **not specified**

## **On-going and planned fabrication at BNL**

*Monday 24 February 2025 16:40 (20 minutes)*

**Presenter:** GIACOMINI, Gabriele (Brookhaven National Laboratory (US))

**Session Classification:** AC-LGAD sensor development and Radiation Tolerance

Contribution ID: **10**

Type: **not specified**

## **Improvement of Radiation Tolerance for AC-LGAD sensors**

*Monday 24 February 2025 17:10 (20 minutes)*

**Presenter:** MURAYAMA, yua

**Session Classification:** AC-LGAD sensor development and Radiation Tolerance

Contribution ID: 11

Type: **not specified**

## **SEB measurements and future plans for test beams at Tandem van der Graaf**

*Monday 24 February 2025 17:40 (20 minutes)*

**Presenter:** D'AMEN, Gabriele (Brookhaven National Laboratory (US))

**Session Classification:** AC-LGAD sensor development and Radiation Tolerance

Contribution ID: 12

Type: **not specified**

## **Status and plans for the FCFD ASIC for 1-cm long AC-LGAD strip sensors**

*Tuesday 25 February 2025 09:00 (20 minutes)*

**Presenter:** XIE, Si (California Institute of Technology (US))

**Session Classification:** Readout ASIC and towards Monolithic detector

Contribution ID: 13

Type: **not specified**

## **IHP Si-Ge Readout ASICs for ACLGAD sensors**

*Tuesday 25 February 2025 09:30 (20 minutes)*

**Presenter:** HORIKOSHI, Issei (University of Tsukuba)

**Session Classification:** Readout ASIC and towards Monolithic detector

Contribution ID: 14

Type: **not specified**

## **Development plans with SkyWater for monolithic AC-LGADs**

*Tuesday 25 February 2025 10:00 (20 minutes)*

**Presenter:** APRESYAN, Artur (Fermi National Accelerator Lab. (US))

**Session Classification:** Readout ASIC and towards Monolithic detector

Contribution ID: 15

Type: **not specified**

## **Monolithic LGAD - TCAD simulations (G. Giacomini)**

**Presenter:** GIACOMINI, Gabriele (Brookhaven National Laboratory (US))

**Session Classification:** Readout ASIC and towards Monolithic detector



Contribution ID: 16

Type: **not specified**

## **Monolithic LGAD - ASIC design**

**Presenter:** MANDAL, Soumyajit

**Session Classification:** Readout ASIC and towards Monolithic detector

Contribution ID: 17

Type: **not specified**

## **Monolithic AC-LGAD concept**

*Tuesday 25 February 2025 10:30 (20 minutes)*

**Presenter:** NAKAMURA, Koji (KEK High Energy Accelerator Research Organization (JP))

**Session Classification:** Readout ASIC and towards Monolithic detector

Contribution ID: **18**

Type: **not specified**

## **Testbeam Facility at KEK and Irradiation Facility in Japan**

*Tuesday 25 February 2025 13:30 (20 minutes)*

**Presenter:** SUGAWARA, Rina (University of Tsukuba (JP))

**Session Classification:** Testbeam and Irradiation Facilities

Contribution ID: **19**

Type: **not specified**

## **Alternative beamline either at LBNL or Jlab**

*Tuesday 25 February 2025 14:00 (20 minutes)*

**Presenter:** YE, Zhenyu (Lawrence Berkeley National Lab. (US))

**Session Classification:** Testbeam and Irradiation Facilities

Contribution ID: **20**

Type: **not specified**

## **Discussion**

*Tuesday 25 February 2025 14:30 (30 minutes)*

**Session Classification:** Testbeam and Irradiation Facilities

Contribution ID: 21

Type: **not specified**

## **Discussion and planning for Monolithic LGAD detectors**

*Tuesday 25 February 2025 11:30 (1h 30m)*

**Session Classification:** Readout ASIC and towards Monolithic detector

Contribution ID: 22

Type: **not specified**

## **Infrastructure and ongoing work at TTU**

*Monday 24 February 2025 12:40 (10 minutes)*

**Presenter:** MADRID, Christopher (Texas Tech University (US))

**Session Classification:** Status and Plan from each institute

Contribution ID: 23

Type: **not specified**

## **LGAD sensor R&D and testing for the PIONEER ATAR detecto**

*Monday 24 February 2025 14:40 (20 minutes)*

**Presenter:** Dr OTT, Jennifer (University of California,Santa Cruz (US))

**Session Classification:** AC-LGAD sensor development and Radiation Tolerance