

**ASPIDES kick-off meeting**

# **Report of Contributions**

Contribution ID: 2

Type: **not specified**

## Dual-readout calorimetry applications

*Thursday, 30 January 2025 14:40 (30 minutes)*

**Presenter:** SANTORO, Romualdo (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** Scientific context

Contribution ID: 3

Type: **not specified**

## **Dark matter detector applications**

*Thursday, 30 January 2025 14:10 (30 minutes)*

**Presenter:** FIORILLO, Giuliana (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** Scientific context

Contribution ID: 4

Type: **not specified**

## **RICH detector applications**

*Thursday, 30 January 2025 15:10 (30 minutes)*

**Presenter:** MAZZIOTTA, Mario Nicola (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** Scientific context

Contribution ID: 6

Type: **not specified**

## Introduction

*Thursday, 30 January 2025 14:00 (10 minutes)*

**Presenter:** RATTI, Lodovico (Istituto Nazionale di Fisica Nucleare)

Contribution ID: 12

Type: **not specified**

## **Hands-on session: the ASAP110LF test chip and measurement setup**

*Thursday, 30 January 2025 09:00 (4 hours)*

The measurement setup already in use in Pavia and Como is made available to the members of the collaboration interested in the chip characterization. The measurement system will be set up at the Physics Department, Viale Berti Pichat, Ufficio B057, ground floor (same building as the meeting room)

Contribution ID: 27

Type: **not specified**

## **ASAPLF110 test chip characterization: after-pulsing and cross-talk**

*Thursday, 30 January 2025 16:45 (25 minutes)*

**Presenter:** SANTORO, Romualdo (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** CMOS SiPM/SPAD characterization

Contribution ID: 28

Type: **not specified**

## **Mini-SiPM characterization in the ASAPLF110 test chip**

*Thursday, 30 January 2025 17:10 (25 minutes)*

**Presenter:** SHOJAEI, Fatemeh (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** CMOS SiPM/SPAD characterization



Contribution ID: 29

Type: **not specified**

## **Bulk damage study in CMOS SPADs**

*Thursday, 30 January 2025 17:35 (25 minutes)*

**Presenter:** CAMPAJOLA, Marcello (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** CMOS SiPM/SPAD characterization

Contribution ID: **30**

Type: **not specified**

## **Update on digital SiPMs and other applications**

*Thursday, 30 January 2025 16:00 (30 minutes)*

**Presenter:** COLLAZUOL, Gianmaria (Dipartimento di Fisica e Astronomia)

**Session Classification:** Scientific context

Contribution ID: **31**

Type: **not specified**

## **Discussion**

*Thursday, 30 January 2025 16:30 (15 minutes)*

**Session Classification:** Scientific context

Contribution ID: **32**

Type: **not specified**

## Conclusion

*Friday, 31 January 2025 12:50 (10 minutes)*

**Presenter:** RATTI, Lodovico (Istituto Nazionale di Fisica Nucleare)

Contribution ID: **33**

Type: **not specified**

## **INFN Bari**

*Friday, 31 January 2025 12:10 (5 minutes)*

**Presenter:** MAZZIOTTA, Mario Nicola (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** News from participating INFN section

Contribution ID: **34**

Type: **not specified**

## **INFN Bologna**

*Friday, 31 January 2025 12:15 (5 minutes)*

**Presenter:** RIGNANESE, Luigi Pio (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** News from participating INFN section

Contribution ID: 35

Type: **not specified**

## **INFN Milano**

*Friday, 31 January 2025 12:20 (5 minutes)*

**Presenter:** SANTORO, Romualdo (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** News from participating INFN section

Contribution ID: 36

Type: **not specified**

## **INFN Napoli**

*Friday, 31 January 2025 12:25 (5 minutes)*

**Presenter:** CAMPAJOLA, Marcello (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** News from participating INFN section



Contribution ID: 37

Type: **not specified**

## INFN Padova

*Friday, 31 January 2025 12:30 (5 minutes)*

**Presenter:** COLLAZUOL, Gianmaria (Dipartimento di Fisica e Astronomia)

**Session Classification:** News from participating INFN section

Contribution ID: **38**

Type: **not specified**

## INFN Pavia

*Friday, 31 January 2025 12:35 (5 minutes)*

**Presenter:** RATTI, Lodovico (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** News from participating INFN section

Contribution ID: **39**

Type: **not specified**

## **INFN Torino**

*Friday, 31 January 2025 12:40 (5 minutes)*

**Presenter:** DA ROCHA ROLO, Manuel Dionisio (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** News from participating INFN section

Contribution ID: 40

Type: **not specified**

## **INFN Trento**

*Friday, 31 January 2025 12:45 (5 minutes)*

**Presenter:** PANCHERI, Lucio (University of Trento)

**Session Classification:** News from participating INFN section

Contribution ID: 41

Type: **not specified**

## **Monolithic SiPM design for dual readout calorimetry**

*Friday, 31 January 2025 09:00 (20 minutes)*

**Presenter:** RATTI, Lodovico (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** CMOS SiPM/SPAD design

Contribution ID: 42

Type: **not specified**

## SiPM readout ASIC for the CTA experiment

*Friday, 31 January 2025 09:20 (20 minutes)*

**Presenter:** LICCIULLI, Francesco (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** CMOS SiPM/SPAD design

Contribution ID: 43

Type: **not specified**

## **The ASPIDES project: goals and objectives**

*Friday, 31 January 2025 09:40 (20 minutes)*

**Presenter:** RATTI, Lodovico (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** The ASPIDES project

Contribution ID: 44

Type: **not specified**

## **WP1 - ASIC design and verification**

*Friday, 31 January 2025 10:00 (20 minutes)*

**Presenter:** LICCIULLI, Francesco (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** The ASPIDES project



Contribution ID: 45

Type: **not specified**

## **WP2 –Testing, data acquisition and integration**

*Friday, 31 January 2025 10:20 (20 minutes)*

**Presenters:** FALCHIERI, Davide (Istituto Nazionale di Fisica Nucleare); RIGNANESE, Luigi Pio (Istituto Nazionale di Fisica Nucleare); SANTORO, Romualdo (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** The ASPIDES project

Contribution ID: 46

Type: **not specified**

## **WP3 –Radiation tolerance and cryogenic operation**

*Friday, 31 January 2025 11:00 (20 minutes)*

**Presenter:** Prof. FIORILLO, Giuliana (University Federico II & Istituto Nazionale di Fisica Nucleare)

**Session Classification:** The ASPIDES project

Contribution ID: 47

Type: **not specified**

## **WP4 –Sensor characterization, simulation and modeling**

*Friday, 31 January 2025 11:20 (20 minutes)*

**Presenter:** PANCHERI, Lucio (University of Trento)

**Session Classification:** The ASPIDES project

Contribution ID: 48

Type: **not specified**

## Discussion

*Friday, 31 January 2025 11:40 (30 minutes)*

**Session Classification:** The ASPIDES project