

12th WG4 General Meeting

Report of Contributions

Contribution ID: **1**

Type: **not specified**

Introduction

Monday 28 April 2025 15:00 (10 minutes)

Presenters: MANDURRINO, Marco (Universita e INFN Torino (IT)); WENNLÖF, Håkan (Nikhef National institute for subatomic physics (NL))

Contribution ID: 3

Type: **not specified**

CMOS simulation and connection between device-level and electronics simulations

Monday 28 April 2025 15:10 (15 minutes)

monolithic sensor simulations - front-end electronics simulations - signal read-out and processing

Session Classification: Updates on Simulations

Contribution ID: 4

Type: **not specified**

Discussion and AoB

Monday 28 April 2025 16:40 (20 minutes)

Presenters: WENNLÖF, Håkan (Nikhef National institute for subatomic physics (NL)); MANDURINO, Marco (Universita e INFN Torino (IT))

Contribution ID: 5

Type: **not specified**

Other detectors/technologies/activities

Monday 28 April 2025 15:25 (15 minutes)

hybrid sensors (LGADs, 3D, strip detectors, ...) - process simulation - particle-matter interaction
- charge carrier transport

Presenter: CROCI, Tommaso (INFN, Perugia Unit)

Session Classification: Updates on Simulations

Contribution ID: 6

Type: **not specified**

Newly measured semiconductor properties

Monday 28 April 2025 15:40 (15 minutes)

non-silicon sensors simulation - gain layer/impact ionisation simulation

Session Classification: Updates on Simulations

Contribution ID: 7

Type: **not specified**

Radiation damage: validation with measurements and development of high-fluence models

Monday 28 April 2025 15:55 (15 minutes)

definition of benchmark models - high-fluence models - radiation environment simulations

Session Classification: Updates on Simulations

Contribution ID: 8

Type: **not specified**

Time dependent electric/weighting field

Monday 28 April 2025 16:10 (15 minutes)

adaptive fields - signal formation in detectors with resistive electrodes - charge transport

Session Classification: Updates on Simulations

Contribution ID: 9

Type: **not specified**

Simulation tools development

Monday 28 April 2025 16:25 (15 minutes)

integration of simulation tools - machine learning

Session Classification: Updates on Simulations