

**1st MONOLITH Workshop on
silicon sensors for timing and
their applications**

Report of Contributions

Contribution ID: 1

Type: **not specified**

Simulations + numerical calculations for fast timing sensors

Monday 5 September 2022 09:10 (20 minutes)

Presenter: RIEGLER, Werner (CERN)

Session Classification: Timing with silicon

Contribution ID: 2

Type: **not specified**

Welcome —Coffee and croissants

Monday 5 September 2022 09:00 (10 minutes)

Presenter: IACOBUCCI, Giuseppe (Universite de Geneve (CH))

Session Classification: Timing with silicon

Contribution ID: 3

Type: **not specified**

Timespot project testbeam results and simulations

Monday 5 September 2022 09:50 (20 minutes)

Presenter: LAI, Adriano (Universita e INFN, Cagliari (IT))

Session Classification: Timing with silicon

Contribution ID: 4

Type: **not specified**

Design of fast CMOS in 65 nm TJ

Monday 5 September 2022 09:30 (20 minutes)

Presenter: SNOEYS, Walter (CERN)

Session Classification: Timing with silicon

Contribution ID: 5

Type: **not specified**

Discussion

Monday 5 September 2022 10:10 (40 minutes)

Session Classification: Timing with silicon

Contribution ID: 11

Type: **not specified**

Summary on IHP experience with gain layers

Monday 5 September 2022 14:00 (20 minutes)

Presenter: Mr ELVIRETTI, Matteo (IHP microelectronics)

Session Classification: Gain layers

Contribution ID: 12

Type: **not specified**

Gain layer performance degradation after irradiation

Monday 5 September 2022 14:20 (20 minutes)

Presenter: MOLL, Michael (CERN)

Session Classification: Gain layers

Contribution ID: 16

Type: **not specified**

INFN project on fast electronics

Monday 5 September 2022 15:30 (20 minutes)

Presenter: RIVETTI, Angelo (INFN - National Institute for Nuclear Physics)

Session Classification: Fast electronics

Contribution ID: 17

Type: **not specified**

Overview talk on HBTs

Monday 5 September 2022 16:05 (20 minutes)

Presenter: Dr RUECKER, Holger (IHP microelectronics)

Session Classification: Fast electronics

Contribution ID: **18**

Type: **not specified**

Fast, low noise frontend in SiGe BiCMOS

Monday 5 September 2022 16:25 (20 minutes)

Presenter: PAOLOZZI, Lorenzo (CERN)

Session Classification: Fast electronics

Contribution ID: **19**

Type: **not specified**

The FastIC project

Monday 5 September 2022 16:45 (20 minutes)

Presenter: BALLABRIGA SUNE, Rafael (CERN)

Session Classification: Fast electronics

Contribution ID: 20

Type: **not specified**

Discussion

Monday 5 September 2022 17:15 (40 minutes)

Session Classification: Fast electronics

Contribution ID: 21

Type: **not specified**

Discussion

Monday 5 September 2022 14:40 (30 minutes)

Session Classification: Gain layers

Contribution ID: 22

Type: **not specified**

Development of novel sub-picosecond TDC

Monday 5 September 2022 17:05 (10 minutes)

Presenter: Dr CARDELLA, Roberto (Universite de Geneve (CH))

Session Classification: Fast electronics

Contribution ID: 23

Type: **not specified**

The PicoPix project

Monday 5 September 2022 15:10 (20 minutes)

Presenter: LLOPART CUDIE, Xavi (CERN)

Session Classification: Fast electronics

Contribution ID: 25

Type: **not specified**

Overview LGAD technology at FBK

Monday 5 September 2022 11:25 (20 minutes)

Presenter: PATERNOSTER, Giovanni (Fondazione Bruno Kessler)

Session Classification: Timing with silicon

Contribution ID: 26

Type: **not specified**

AC-coupled LGAD with HPKK technology

Monday 5 September 2022 11:45 (20 minutes)

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

Session Classification: Timing with silicon

Contribution ID: 27

Type: **not specified**

MONOLITH project simulations and testbeam results

Monday 5 September 2022 11:05 (20 minutes)

Presenter: MUNKER, Magdalena (University of Geneva)

Session Classification: Timing with silicon

Contribution ID: **28**

Type: **not specified**

Discussion

Monday 5 September 2022 12:05 (40 minutes)

Session Classification: Timing with silicon

Contribution ID: 29

Type: **not specified**

The NA62 GigaTracker

Tuesday 6 September 2022 09:00 (20 minutes)

Presenter: PERRIN-TERRIN, Mathieu (Centre National de la Recherche Scientifique (FR))

Session Classification: Applications in HEP and space experiments

Contribution ID: **30**

Type: **not specified**

UZH plans for CMS Phase3 and in AIDAInnova

Tuesday 6 September 2022 09:20 (20 minutes)

Presenter: MACCHIOLO, Anna (University of Zurich (CH))

Session Classification: Applications in HEP and space experiments

Contribution ID: 32

Type: **not specified**

Mu3e silicon timing upgrade

Tuesday 6 September 2022 09:40 (20 minutes)

Presenter: SCHOENING, Andre (Ruprecht Karls Universitaet Heidelberg (DE))

Session Classification: Applications in HEP and space experiments

Contribution ID: 33

Type: **not specified**

DUNE cryogenic electronics

Tuesday 6 September 2022 10:15 (20 minutes)

Presenter: CHEN, Hucheng (Brookhaven National Laboratory (US))

Session Classification: Applications in HEP and space experiments

Contribution ID: **34**

Type: **not specified**

Discussion

Tuesday 6 September 2022 10:55 (45 minutes)

Session Classification: Applications in HEP and space experiments

Contribution ID: 36

Type: **not specified**

EPFL AQUA Lab cryogenic projects

Tuesday 6 September 2022 14:00 (20 minutes)

Presenter: Prof. CHARBON, Edoardo (EPFL)

Session Classification: Cryogenic applications

Contribution ID: 37

Type: **not specified**

IHP PDK + models for cryogenic applications

Tuesday 6 September 2022 14:20 (20 minutes)

Presenters: Dr DATSUK, Anton (IHP); RUECKER, Holger (IHP microelectronics)

Session Classification: Cryogenic applications

Contribution ID: **38**

Type: **not specified**

IDQuantique projects

Tuesday 6 September 2022 14:40 (20 minutes)

Presenter: Dr BOUSSIÈRES, Félix (IDQuantique)

Session Classification: Cryogenic applications

Contribution ID: **39**

Type: **not specified**

Discussion

Tuesday 6 September 2022 15:00 (40 minutes)

Session Classification: Cryogenic applications

Contribution ID: 40

Type: **not specified**

Potential use of combined ToF-tracking sensors for Proton Computer Tomography

Tuesday 6 September 2022 10:35 (20 minutes)

Presenter: Prof. SANCHEZ, Federico (Universite de Geneve (CH))

Session Classification: Applications in HEP and space experiments