

## **Monday 2 December**

10:20

WG2 - Hybrid silicon technologies: WG2 - Hybrid silicon technologies

Session | Location: CERN, 500/1-001 - Main Auditorium | Conveners:

Martin Van Beuzekom, Anna Macchiolo, Alessandro Tricoli

10:20-10:35 Introduction

**Speakers** 

Alessandro Tricoli, Anna Macchiolo, Martin Van Beuzekom

10:35-10:55

Preliminary results on 3D silicon sensors using femtosecond TCT-SPA and TPA-TCT techniques at ELI: Work in Progress

**Speaker** 

Gordana Lastovicka Medin

10:55-11:15 On the properties of signal formation in LGAD sensors

Speaker

Nicolo Cartiglia

11:15-11:35 study of deep carbonated LGAD at IHEP

Speaker

Yuan Feng

11:35-11:55 Ghosty Ti-LGAD

Speaker

Ms Danijela Mrkic

11:55-12:15 First Irradiation Studies of the novel nLGAD Concept

Speaker

Veronika Kraus

12:15-12:30 ASIC Development for Timing Measurements using LGAD Sensors

Speaker

Abderrahmane Ghimouz

12:30-13:50 Lunch Break

13:50-14:10

Performance of AC-LGADs in radiation hard environment and non-standard charge depositio

Speaker

Dr Simone Michele Mazza

14:10-14:30 Research of AC-LGAD strip detector for 4D tracking

Speaker

Weiyi Sun

14:30-14:50 Update on the DC-coupled Resistive Silicon Detector for 4D tracking

Speaker

Roberta Arcidiacono

14:50-15:10

Impact of high deposited energy on Single Event Burnout in LGAD sensors

Speaker

Dr Matthew Glenn Kurth

15:10-15:30

Characterization of Low Gain Avalanche Detector Gain by Means of the Transient **Current Technique** 

Speaker

Mohamed Hijas Mohamed Farook

15:30-16:00 Coffee Break

16:00-16:20

Controlled charge multiplication in thin small-pitch 3D pixel sensors

Speaker

**Andrew Donald Gentry** 

16:20-16:35

RD50 Common Fund Project - RD50-2023-03: Deep Junction LGAD

Speaker

Dr Simone Michele Mazza

16:35-16:50

NEUROPIX: A neuromorphic computing framework for pixelated detector data processing

**Speaker** 

Mathieu Benoit

16:50-17:05

OPTIMA, a board dedicated to Optimized Precision Timing for Multichannel Acquisition

Speaker

Federico De Benedetti

17:05-17:20 LGAD and 3D technology at the IMB-CNM

Speaker

Neil Moffat

**Summary of Proposed Projects in WG2** 17:20-17:25

Alessandro Tricoli, Anna Macchiolo, Martin Van Beuzekom

17:25-18:00 WG2 - Discussion

**Speakers** 

Alessandro Tricoli, Anna Macchiolo, Martin Van Beuzekom

18:15