

## **Session Program**

**15-19 Nov 2021**

# **RD51 Collaboration Meeting and Topical Workshop on Wide Dynamic Range Operation**

## ***Topical Workshop - Wide Dynamic Range Operation of MPGDs***

remote only

# Thursday 18 November

09:00

## Topical Workshop - Wide Dynamic Range Operation of MPGDs

**Session** | **Location:** remote only | **Conveners:** Florian Maximilian Brunbauer, Pawel Majewski

09:00–09:05 **Opening**

09:05–09:35 **MPGDs operation in high-dynamic range environments**

**Speaker**

Vladimir Peskov

09:35–10:00

**Single photon detection with gaseous detectors and the COMPASS RICH experience**

**Speaker**

Chandradoy Chatterjee

10:00–10:25

**Measurements and simulation of the response linearity of a Triple GEM structure**

**Speaker**

Davide Pinci

10:25–10:50

**Possible ways to increase dynamic range in GEM, THGEM, Micromegas and uRwell detectors**

**Speaker**

Rui De Oliveira

10:50–11:10 **Coffee break**

11:10–11:35

**Recent Developments in Optical and Charge Hybrid Readout Glass GEM**

**Speaker**

Takeshi Fujiwara

11:35–12:00 **Discharge quenching - towards a spark-less MPGD**

**Speaker**

Piotr Gasik

12:00–12:25 **An Approach for Extra large high Dynamic Range**

**Speaker**

Emanuel Pollacco

12:30

14:20

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**Session** | **Location:** remote only | **Conveners:** Florian Maximilian Brunbauer, Pawel Majewski

14:20–14:45

**A first look at electronic spark mitigation for wide dynamic range operation**

**Speaker**

Johan Erik Borg

14:45-15:10

**Spherical gaseous detectors for wide dynamic range****Speaker**

Patrick Ryan Knights

15:10-15:35

**Super-FRS tracking of heavy ions at FAIR with twin-GEM-TPC****Speaker**

Francisco Ignacio Garcia Fuentes

15:35-16:00

**Effects of high charge densities in GEM-based detectors****Speaker**

Filippo Resnati

16:00-16:15

**Coffee break**

16:15-16:40

**Operation and performance of MPGD in Active Target Time Projection Chambers****Speaker**

Yassid Ayyad

16:40-17:05

**Detector Dynamic Range and the Migdal Effect****Speaker**

Alex Mills

17:05-17:30

**Dynamic range in MPGD-based directional neutron and dark matter detection****Speaker**

Sven Vahsen

17:30-17:40

**Discussion**

17:50