

## **Session Program**

**25-29 Oct 2021**



## **Workshop on Advanced Radiation Detector and Instrumentation in Nuclear and Particle Physics (Online)**

### ***Oral presentations***

University of Jammu, Online

# Monday 25 October

10:30

## Oral presentations

**Session** | **Location:** University of Jammu, Online | **Convener:** Anju Bhasin

10:30–10:50

### Comparative study of position resolution and gain map of Single and Double GEM

#### Speaker

Mr Vishal Kumar

10:50–11:10

### Charging up effect in triple GEM detector

#### Speaker

Mr Sayak Chatterjee

11:10

12:20

## Oral presentations

**Session** | **Location:** University of Jammu, Online | **Convener:** Anand Kumar Dubey

12:20–12:40

### Simulations of multi-layer GEM systems from single to quadruple GEMs

#### Speaker

Ae Ra Jung

12:40–13:00

### Numerical Evaluation of Resistive Plate Chamber

#### Speaker

Mr Subhendu Das

13:00

16:10

## Oral presentations

**Session** | **Location:** University of Jammu, Online | **Convener:** Renu Bala

16:10–16:30

### Gain uniformity of a quad-GEM detector at different gas flowrates

#### Speaker

Rupamoy Bhattacharyya

16:30–16:50

### Charging up studies in thick Gas Electron Multipliers

#### Speaker

Ms Promita Roy

16:50–17:10

### A Simulation of Primary Ionization for Different Gas Mixtures

#### Speaker

Dr Kanishka R.

17:10

## Tuesday 26 October

10:30

### Oral presentations

**Session** | **Location:** University of Jammu, Online | **Convener:** Bedangadas Mohanty

10:30–10:50

#### Bakelite RPC with and without linseed oil coating

##### Speaker

arindam sen

10:50–11:10

#### In Search of an Eco-friendly Gas Mixture for Avalanche Mode Operation of RPC

##### Speakers

Dr Jaydeep Datta, Mr Sridhar Tripathy

11:10

12:20

### Oral presentations

**Session** | **Location:** University of Jammu, Online | **Convener:** Kirti Ranjan

12:20–12:40

#### Charge Collection properties of Double Sided Germanium Strip Detector

##### Speaker

Arzoo Sharma

12:40–13:00

#### Straw Tube Studies and Prototype Assembly for DUNE

##### Speaker

Prachi Sharma

13:00

16:10

### Oral presentations

**Session** | **Location:** University of Jammu, Online | **Convener:** heinz graafsma

16:10–16:30

#### Gamma-ray imaging applications of position-sensitive fast scintillators

##### Speaker

Mr Biswajit Das

16:30–16:50

#### Development of an air shower array using plastic scintillators

##### Speaker

Shreya Roy

16:50–17:10

#### Investigation on thermal performance of low temperature multilayer insulation technique for ground based rare physics programs.

##### Speaker

Ms D. Singh

17:10

## Wednesday 27 October

10:30

### Oral presentations

**Session** | **Location:** University of Jammu, Online | **Convener:** Chandana Bhattacharya

10:30–10:50

#### **Study of neutron response using time of flight technique in ISMRAN detector.**

##### **Speaker**

Mr Roni DEY

10:50–11:10

#### **A THGEM based low pressure gas detector for the detection of fission fragments**

##### **Speaker**

Mr Arijit Sen

11:10

12:20

### Oral presentations

**Session** | **Location:** University of Jammu, Online | **Convener:** Gagan Mohanty

12:20–12:40

#### **FPGA based high speed DAQ systems for high-energy physics experiments: potential challenges**

##### **Speaker**

Dr Shuaib Ahmad Khan

12:40–13:00

#### **Designing a front end digital pulse processing chain for FAIR CBM experiment using FPGAs**

##### **Speaker**

Abhishek Singh

13:00

16:10

### Oral presentations

**Session** | **Location:** University of Jammu, Online | **Convener:** Stefania Maria Beole

16:10–16:30

#### **Numerical Studies on Primary Ionization in TPC**

##### **Speaker**

Mr PRALAY DAS

16:30–16:50

#### **Simulating the response of a liquid scintillation detector to neutrons**

##### **Speaker**

Mr S. Das

16:50–17:10

#### **Monte Carlo simulations for nuclear physics experiments using NPTool**

##### **Speaker**

Subhankar Maity

17:10

# Thursday 28 October

10:30

## Oral presentations

**Session** | **Location:** University of Jammu, Online | **Convener:** Vipin Bhatnagar

10:30–10:50

**Commissioning and testing of real-size triple GEM prototypes for CBM-MuCh in the mCBM experiment at SIS18 facility of GSI**

**Speaker**

Mr Ajit Kumar

10:50–11:10

**Upgradation of CMS Detector at the LHC with GEM Detector**

**Speaker**

Harjot Kaur

11:10

12:20

## Oral presentations

**Session** | **Location:** University of Jammu, Online | **Convener:** Sanjib Muhuri

12:20–12:40

**Development of silicon detector and readout electronics for the FoCal**

**Speaker**

Mr Sourav Mukhopadhyay

12:40–13:00

**Concept and development of the Focussing Aerogel Ring Imaging Cherenkov (FARICH) detector for HMPID-systems**

**Speaker**

Aleksei Makarov

13:00

16:40

## Oral presentations

**Session** | **Location:** University of Jammu, Online | **Convener:** Satya Ranjan Santra

16:40–17:00

**Detectors for light charged particles, neutrons and fission fragments produced in low energy nuclear physics experiments**

**Speaker**

Asim Pal

17:20

## Friday 29 October

10:30

### Oral presentations

**Session** | **Location:** University of Jammu, Online | **Convener:** Sandeep Ghugre

10:30–10:50

#### Exploring the Superheated Liquid Detector for Low-Mass Dark Matter Search

##### Speaker

Ms Sunita Sahoo

10:50–11:10

#### Characterization of Sapphire detector for CEvNS search at MINER

##### Speaker

Ms Mouli Chaudhuri

11:10

12:20

### Oral presentations

**Session** | **Location:** University of Jammu, Online | **Convener:** Subhasis Chattopadhyay

12:20–12:40

#### Application of MPGD detector in Medical Imaging and Treatment

##### Speaker

Mr Sunil Kumar

12:40–13:00

#### Effect of Continuous Long Term Exposure of Non-ionising Radiation on Human Health

##### Speaker

Rahul Kaushik

13:00

14:00

### Oral presentations

**Session** | **Location:** University of Jammu, Online | **Convener:** Indranil Mazumdar

14:00–14:20

#### Discrimination of neutrons and gamma-rays induced events in Superheated Emulsion Detector

##### Speaker

Mr Suraj Ali

14:20–14:40

#### A Compact and Cost effective Data Acquisition Module (C-DAQ) for Particle physics instrumentation

##### Speakers

Yuvaraj Elangovan, Mandar Saraf

14:40