

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

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

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

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

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

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

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

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

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