

## Session Program

Jun 14 - 17, 2022



## Low Radioactivity Techniques (LRT2022)

### *LRT 2022 - poster session*

South Dakota Mines, EEP 252  
501 E. Saint Joseph St. Rapid City, SD 57701 USA

## Wed, June 15

3:05 PM

**LRT 2022 - poster session: + Coffee / Refreshments**

Session | Location: South Dakota Mines, Surbeck Ballroom, 501 E. Saint Joseph St. Rapid City, SD 57701 USA

**3:05 – 3:06 PM The Cold Radon Emanation Facility****Speaker**  
Emily Perry**3:07 – 3:08 PM The Radon Emanation Measurement System of PandaX-4T [remote]****Speaker**  
Lin Si**3:11 – 3:12 PM Detector characterization for the LEGEND-200 experiment****Speaker**  
Valentina Biancacci**3:13 – 3:14 PM Science at LSM, Underground Laboratory of Modane****Speaker**  
Ali DASTGHEIBI FARD**3:15 – 3:16 PM R2D2: a xenon TPC for neutrinoless double beta decay search****Speaker**  
Cedric Cerna**3:17 – 3:18 PM Cosmogenic activation calculation of experiments with LAr target****Speaker**  
Teena Vallivilayil John**3:19 – 3:20 PM Radon déposition simulation and test****Speaker**  
guillaume warot

3:21 – 3:22 PM

**Mitigation of Cosmogenically Induced Background from  ${}^{42}\text{Ar}/{}^{42}\text{K}$  using Encapsulation with Ultra-Pure Plastic for the LEGEND Experiment****Speaker**  
Ibrahim Mirza

3:23 – 3:24 PM

**The Study of  ${}^{13}\text{C}(\alpha, n){}^{16}\text{O}$  reactions in the MAJORANA DEMONSTRATOR Calibration Data****Speaker**  
Mr Tupendra Oli**3:25 – 3:26 PM Cryogenic light readout of NaI(Tl) crystals for dark matter detection****Speaker**  
DAVIDE D'ANGELO**3:27 – 3:28 PM Latest development of the specialty ultra-low background detector manufacturing**

**Speaker**  
Mr Damian Ralet

3:29 – 3:30 PM **Indium-115 based crystals for  $\beta$ -decay spectral shape measurement**

**Speaker**  
Giovanni Benato

3:31 – 3:32 PM **Radon burden and Xe purification performance of the LZ hot zirconium getter**

**Speaker**  
Carter Hall

3:33 – 3:34 PM **Low Low Background kTon-Scale Liquid Argon Time Projection Chambers**

**Speaker**  
Dr Sagar Sharma Poudel

3:35 – 3:36 PM

**Development of pulse shape discrimination method for identification and rejection of alpha events in high purity germanium detectors**

**Speaker**  
Dr Krzysztof Szczepaniec

3:37 – 3:38 PM **Characterizing the Impact of Veto Threshold Settings on Detector Backgrounds**

**Speaker**  
Kimbrelle Thommasson

3:39 – 3:40 PM **Suggestion of mobile ultra-low background HPGe system**

**Speaker**  
Chang-Jong Kim

3:41 – 3:42 PM **Background Explorer**

**Speaker**  
Sagar Sharma Poudel

3:43 – 3:44 PM

**Using ultra-clean conditions of the MAJORANA DEMONSTRATOR to measure unobserved  $180\text{mTa}$  decay**

**Speaker**  
Samuel Schleich

3:45 – 3:46 PM **Emanation and Diffusion of Radon through Gaskets for SuperCDMS SNOLAB**

**Speaker**  
Richard Schnee

3:47 – 3:48 PM **Analysis of Backgrounds for a Radon-Emanation System**

**Speaker**  
Seth Bendigo

4:30 PM