

## **Session Program**

**22-26 Jul 2024**

# **ICEC29/ICMC2024**

## ***Tue-Po-1.3***

CICG - GENEVA, Switzerland  
Rue de Varembe 17, 1202 Genève

## Tuesday 23 July

14:00

### Tue-Po-1.3: Electronics, Sensors & Detectors

**Poster Session** | **Location:** Poster area | **Convener:** Goncalo Tomas

#### **Fabrication of Intrinsic Josephson Junction Devices using Hydrogen-Atmosphere Treatment**

**Speaker**

Hiromi Tanaka

#### **A helium isotope separation device with flow visualization unit**

**Speaker**

Qianxi Qu

#### **Numerical investigations on pressure wave refrigerators for sizing the dump tank and studying its effect on the operating frequency at first peak efficiency**

**Speaker**

Mr Shariq Zafar

#### **Monte Carlo simulation of the thermal radiation heat load to the cryogenic mirror and vacuum system of the Einstein Telescope**

**Speaker**

Xueli Luo

#### **Overview of collaborative research between UNICAMP in Brazil and Fermilab in cryogenics.**

**Speaker**

Roza Doubnik

#### **Machine Learning Framework for Anomaly Detection and Maintenance Optimization in Large-Scale Cryogenic Systems**

**Speaker**

Paolo Cacace

#### **Conceptual design of a high intensity liquid ortho-deuterium moderator for the European Spallation Source**

**Speaker**

Dr Yannick Beßler

#### **Ultra low temperature noise thermometry and its applications at ISIS Neutron and Muon Source**

**Speaker**

Lucy Bain

#### **Design and construction at CERN of an enhanced thermal conductivity measurement setup in the temperature range of 1.8 K to 50 K**

**Speaker**

Maha Rhandi

#### **Experimental research on heat transfer performance of low temperature support structure**

**Speaker**

Tiantian Xiao

**Preliminary development of near-field radiative heat transfer measurement system for high-temperature superconductor****Speaker**

Bixi Li

**The development and validation of a multi-purpose cryostat for cryogenic pellet experiments****Speaker**

Richard Csiszar

**GFK-Cryostat for a Cryogenic Current Comparator****Speaker**

Hannes Nowak

**Performance analysis of a cryogenic liquid air energy storage system coupled with LNG cold utilization and ORC****Speaker**

Mr Jiahao Hao

**Mixed-refrigerant cooled 10 kA current leads for superconducting applications****Speaker**

Mr Jonas Arnsberg

16:00