

Session Program

18-22 May 2025



CEC/ICMC 2025 Abstracts & Technical Program

C2Po1A - Cryogenic Components II

Peppermill Reno
2707 S. Virginia St. Reno, NV 89502

Tuesday 20 May

09:15

C2Po1A - Cryogenic Components II

Poster Session | Location: Exhibit Hall, Tuscany Ballroom

C2Po1A-09: Development of the linear Compressor of 152Hz Micro Pulse Tube Cryocooler

Speaker

Yuhong Zhang

C2Po1A-01: Experimental Study on the Cavitation Characteristics of a Centrifugal Pump in Liquid Helium

Speaker

Johannes Doll

C2Po1A-02: Research on Optimization Strategies for Heat Switches Based on Helium Adsorption Models

Speaker

Mr Teng Pan

C2Po1A-03: Design and development of a control valve plug for precise control and measurement of cryogenic flow

Speaker

Mr Austin Grake

C2Po1A-04: Optimizing nozzle-impeller coupling to enhance efficiency in hydrogen Turbo-Expanders

Speakers

Changlei Ke, Mr Hongmin Liu

C2Po1A-05: Performance assessment of liquid hydrogen pump for the ESS cryogenic moderator system during initial commissioning using helium

Speaker

Theodoros Vasilopoulos

C2Po1A-06: Basic design of a 17 kW orifice type heater for the ESS cryogenic moderator system

Speaker

Dr Hideki Tatsumoto

C2Po1A-07: Pre-design and efficiency analysis of electric generator brake cryogenic helium turbine expander

Speaker

Mr Chenghao Dai

C2Po1A-08: Analysis of unbalance response of the rotor of a typical cryogenic turbine for helium refrigerator under thermal effect

Speaker

Chenghao Dai

11:00