

Abstract ID	Presentation	Name	Name of the Organization	Country	Title
Poster Session: Large scale cryogenics I & Accelerator Cryogenics I Chairperson: Mr. Klus Ohlig & Mr. Shrikant Pattalwar					
63	8-P1-1	Mr. Ashish Sam	Indian Institute of Technology Kharagpur	India	Effect of trailing edge thickness on the performance of a helium turboexpander used in cryogenic refrigeration and liquefaction cycles
74B	8-P1-2	Mr. Longhui Zou	Technical Institute of Physics and Chemistry	China	Cryogenic adsorber design in large scale cryogenic engineering
74A	8-P1-3	Mr. Longhui Zou	Technical Institute of Physics and Chemistry	China	Investigation of breakthrough curve of 10K cryogenic adsorber in helium refrigerator
81	8-P1-4	Mr. Naveen Kumar	Bhabha Atomic Research Centre	India	Development of aerostatic bearing solutions for high-speed cryogenic turboexpanders
82	8-P1-5	Mr. Mohananand Jadhav	Bhabha Atomic Research Centre (BARC)	India	Theoretical study on the efficacy of the cold compressor based cryogenic cycles
104	8-P1-6	Ms. Wang Huirong	Technical Institute of Physics and Chemistry, CAS	China	A thermodynamic analysis of helium liquefier for optimization
105	8-P1-7	Mr. Rajendran.S Menon	BARC Trombay	India	Development of a transferline connecting a helium liquefier cold box and a liquid helium Dewar

106	8-P1-8	Mr. Satish Bharti	BARC	India	Development of facility for testing of cryogenic turboexpanders of different capacities
108	8-P1-9	Mr. SARUN KOCHUNNI	Indian Institute of Technology, Kharagpur	India	Comparison between Claude and reverse Brayton refrigeration cycles for LNG boil-off gas reliquefaction system based on exergy analysis
109	8-P1-10	Mr. JUBIL JOY	Indian Institute of Technology Kharagpur	India	Evaluating alternative designs of LNG regasification system and adapting them for reduced load condition
117	8-P1-11	Mr. Geet Jain	I.E.T	India	Flow mal-distribution study in cryogenic counter-flow plate fin heat exchangers
122	8-P1-12	Mr. PRATIK TAGADE	Indian Institute of Technology Kharagpur	India	Dynamic simulation of multistream plate fin heat exchangers of an LNG boil-off gas reliquefaction system
123	8-P1-13	Mr. ROHIT SINGLA	IIT Kharagpur	India	Mitigation of increased specific power consumption in cryogenic air separation unit at reduced oxygen production
139	8-P1-14	Mr. Rajvir Doohan	RR Center For Advanced Technology	India	Capacity enhancement of indigenously design and developed expansion engine based helium liquefier
30	8-P1-15	Mr. Tao Jin	Institute of Modern Physics, Chinese Academy of Science	China	The operation of ADS injector II cryogenic system in IMP of CAS
170	8-P1-16	Mr. Marcel Klaus	Technische Universitaet Dresden	Germany	The Cryogenic Moderator System for the European Spallation Source

96	8-P1-17	Mr. Hsing-Chieh Li	National Synchrotron Radiation Research Center	Taiwan	The Redundant Compressor System for Helium Cryogenic Plant at TPS
177	8-P1-18	Mr. RAJESH SACHAN	BHABHA ATOMIC RESEARCH CENTRE	India	Manufacturing Experiences of a Cryo Module Test System for International Linear Accelerator Collider Programme
178A	8-P1-19	Dr. Jaroslaw Fydrych	European Spallation Source ERIC	Sweden	Numerical analysis of temperature stratification in a sub-atmospheric cold helium line
179	8-P1-20	Mr. Javed Akhter	Variable Energy Cyclotron Center	India	Characterization of cryosorption properties and reactivation properties of Activated Charcoal Cloth
187	8-P1-21	Mr. Claudio Kotnig	CERN	Switzerland	Investigation and performance assessment of hydraulic schemes for the beam screen cooling for the Future Circular Collider of hadron beams
Poster Session: Cryocooler I Chairperson: Dr. Peter Shirron & Prof. Venkatratnam					
21	8-P1-22	Mr. Amit Jomde	Sathyabama University	India	Parametric analysis of linear compressor using mathematical simulator
23	8-P1-23	Mr. Srikanth Thota	ISRO Satellite Centre	India	Design of High Frequency Pulse Tube Cryocooler for Onboard Space Applications
27	8-P1-24	Mr. Derick Abraham	National Institute of Technology Calicut	India	Development of inertance type pulse tube cryocooler without a reservoir

29B	8-P1-25	Prof. Maoqiong Gong	Key Laboratory of Cryogenics, Technical Institute of Physics and Chemistry, Chinese Academy of Sciences	China	Development and test of a miniature nitrogen liquefier with a capacity of 10 L/h
38	8-P1-26	Dr. Yuexue Ma	Technical Institute of Physics and Chemistry, Chinese Academy of Sciences	China	Experimental research on a hybrid 4.5K J-T cryocooler for space application
39	8-P1-27	Mr. SUDEEP GUPTA	IIT KHARAGPUR	India	Cycle design of reverse brayton cryocooler for hts cable cooling using exergy analysis
41	8-P1-28	Mr. Rajendra Kumar	LOVELY PROFESSIONAL UNIVERSITY	India	Pulse-tube refrigeration with magnetic regenerators: A novel model and analysis
51	8-P1-29	Mr. Vineed Narayanan	Indian Institute of Technology Madras	India	Experimental Investigation of Mixed Refrigerant Cryocooler operating less than 70 K for cooling High Temperature Superconductors.
59	8-P1-30	Mr. Kranthi Jonnalagadda	IISc	India	Studies on the development and efficiency improvement of a 1.5 W at 25 K two stage pulse tube cooler
61	8-P1-31	Mr. Liang Menglin	Technical Institute of Physics and Chemistry, Chinese Academy of Sciences	China	Simulation of Inertial tube based on Lagrange method
68	8-P1-32	Mr. ABHAY GOUR	INDIAN INSTITUTE OF SCIENCE	India	Experimental studies on twin PTC's driven by dual piston head linear compressor

69	8-P1-33	Mr. VIVEK G A	I-Design Engineering Solutions Ltd	India	Helium gas liquefaction system using a two stage GM Cryocooler
70	8-P1-35	Dr. Jinze Li	TIPC, CAS	China	Impact of varying acceleration to the performance of stirling-type pulse tube cryocooler
98	8-P1-36	Dr. Subrata Ghosh	Indian School of Mines, Dhnabad	India	Development of Cryogenic Pulse Tube Refrigerator
73	8-P1-37	Dr. Jinze Li	Technical Institute of Physics and Chemistry, Chinese Academy of Sciences	China	Impact of varying acceleration to the performance of stirling-type pulse tube cryocooler
87B	8-P1-38	Dr. Jianying Hu	Technical Institute of Physics and Chemistry, CAS	China	A three-stage thermoacoustically driven power-recovered pulse tube cryocooler system
62	8-P1-39	Mr. Rajesh V R	Amrita Vishwa Vidyapeetham University	India	Comparative Study and Electromagnetic Analysis of a Moving Magnet Linear Motor for a Stirling Cryocooler
Poster Session: Heat Transfer I & Thermophysical Properties Chairperson: Prof. Partho Ghosh					
300B	8-P1-40	Dr. Upendra Behera	Indian Institute of Science	India	Design, development and experimental studies on stainless steel flexible transfer lines

1	8-P1-41	Mr. Soumen Kar	Inter-University Accelerator Centre	India	Helium exchange gas based variable temperature insert for cryogen-free magnet system
18	8-P1-42	Dr. Reby Roy	TKM College of Engineering, Kollam	India	Numerical investigations on the effect of slenderness ratio of matrix elements in cryogenic chill down process.
19A	8-P1-43	Dr. jian mou	Technical Institute of Physics and Chemistry, CAS	China	A numerical model on thermodynamic analysis of alpha type free-piston Stirling engine
33	8-P1-44	Mr. Ogun Dikici	Ege University	Turkey	Effective Temperature Stability Control for High Temperature Superconducting Bolometer Array Measurements
60	8-P1-45	Mr. GV G.V.	INDIAN INSTITUTE OF SCIENCE	India	Experimental and analytical studies on a foam insulated rigid type transfer line for use with liquid nitrogen
71	8-P1-46	Dr. Xueliang Li	Key Laboratory of Space Energy Conversion Technology, Technical Institute of Physics and Chemistry, Chinese	China	Experimental research on heat transfer coefficient for micro-sized internally finned heat exchanger
78	8-P1-47	Mr. ABHILASH CHAKRAVARTY	Bhabha Atomic Research Center, Mumbai	India	Numerical and experimental investigations of transient behaviour of compact plate fin heat exchanger
80A	8-P1-48	Mr. Zheng Jianpeng	Key Laboratory of Cryogenics, Technical Institute of Physics and Chemistry, Chinese Academy of Sciences	China	Experimental study on the insulation performance of SOFI and MLI in liquid oxygen on orbit storage

89	8-P1-49	Dr. Robin Langebach	Dresden University of Technology	Germany	Radiative heat transfer estimation in pipes with various wall emissivities
80B	8-P1-50	Mr. Zheng Jianpeng	TIPC , Chinese Academy of Sciences	China	Numerical simulation and experimental study of gas liquid separator for cryogenic fluid transportation
269B	8-P1-51	Dr. Milind Atrey	IIT Bombay	India	Construction of Joule Thomson inversion curves for mixtures using equations of state
410	8-P1-52	Ms. Kumari neelam verma	Lovely professional university	India	Feasibility Studies on the Thermophysical Properties of Cryogen Based Nanofluids to be used in MRI applications
Poster Session: Superconducting magnet I & RF-Superconductivity Chairperson: Mr. Subimal Saha					
333	8-P1-53	Prof. Tetsuo Oka	Niigata University, Faculty of Engineering	Japan	Magnetic flux invasion in HTS bulk magnets with varying the shapes of remaining flux distributions in multiple-PFM processes
52	8-P1-54	Mr. Jedidiah Pradhan	Variable Energy Cyclotron Centre	India	Design and Development of Cryogen Free Cryogenic Test set-up
94	8-P1-55	Dr. Zhang Hengcheng	TIPC , Chinese Academy of Sciences	China	Numerical simulation analysis of superconducting magnet system
134	8-P1-56	Mr. PANKAJ KUMAR	VARIABLE ENERGY CYCLOTRON CENTRE	India	Stress and safety analysis of 9T superconducting solenoid magnet for RIB facility

158B	8-P1-57	Dr. Akhdiyov Sattarov	Texas A&M University	United States	Two optimizations of the dipoles for a 100 TeV hadron collider
189	8-P1-58	Mr. Raja Sekhar Dondapati	Lovely Professional University	India	Parametric Analysis of Heat Transfer Rate in dual channel Cable-in-Conduit-Conductors (CICCs) used for Fusion Grade Magnets
247	8-P1-59	Mr. Sundeep Ghosh	Variable Energy Cyclotron Centre	India	Quench analysis of a novel compact superconducting cyclotron
307A	8-P1-60	Dr. Davide Uglietti	EPFL - SPC	Switzerland	Experimental study of the protection of HTS non-insulated inserts against quench of the outer magnet
57B	8-P1-61	Mr. Shrikant Pattalwar	STFC Daresbury Laboratory	United Kingdom	An Experimental Cryostat for Measuring Surface Resistance of SRF Coated Cavities
226	8-P1-62	Mr. Ninad Pattalwar	STFC Daresbury Laboratory	United Kingdom	Experimental Cryostat for Measuring Field Penetration Through S-I-S Multilayer
Poster Session: Instrumentation & Control I Chairperson: Dr. Juan Casas					
25	8-P1-63	Mr. K V SRINIVASAN	TATA INSTITUTE OF FUNDAMENTAL RESEARCH	India	Calibration of temperature sensors for BARC, Mumbai using in-house developed magneto-resistance setup at TIFR, Mumbai
26B	8-P1-64	Mr. Ram Dhuley	Florida State University	United States	Demountable thermometer epoxy encapsulates for measuring temperature of heat transfer surfaces in liquid helium

54	8-P1-65	Mr. Nico Dittmar	Technische Universitaet Dresden	Germany	Thermohydraulic modelling of a transfer line for continuous flow cryostats
75	8-P1-66	Mr. ANAND YADAV	RRCAT,Indore	India	Detection of quench location in 1.3 GHz single cell SCRF Cavity during cold testing in LHe bath at 2K
121	8-P1-67	Mr. Umashankar Panda	Variable Energy Cyclotron Centre	India	Process Control Migration of 50 LPH Helium Liquefier
135	8-P1-68	Mr. Pankaj Sagar	Centre for Cryogenic Technology, IISc Bangalore	India	Measurement of thin film superconducting parameters using planar transformers
178B	8-P1-69	Dr. Jaroslaw Fydrych	European Spallation Source ERIC	Sweden	Heat transfer resistances in the measurements of cold helium vapor temperature in a subatmospheric process line
190	8-P1-70	Mr. Jean MANZAGOL	CEA GRENOBLE - INAC/SBT	France	Cryogenic Instrumentations for ITER Magnets
193	8-P1-71	Mr. Vladislav Benda	CERN	Switzerland	Long term experience with the industrial 3He vapour-pressure thermometer
427	8-P1-73	Mr. Alexander Germer	Technical University of Dresden, Institute of Power Engineering,Cryogenics and Compressor Technology	Germany	A test rig for analysis of adhesive tapes at 4 K cryogenic temperature

Poster Session: NMR, Purification & Cryostat Design

Chairperson: Prof. Kasthuriengan

192	8-P1-74	Mr. BOULEAU Eric	CEA GRENOBLE	France	Ultra Low temperature Nuclear Magnetic Resonance (NMR)
19B	8-P1-75	Dr. jian mou	Technical Institute of Physics and Chemistry, CAS	China	Multi-objective optimization for free piston Stirling engines based on the dimensionless power
43	8-P1-76	Dr. Junjie Li	High Magnetic Field Laboratory, Chinese Academy of Sciences	China	Helium recovery and purification at CHMFL
66	8-P1-77	Mr. suraj ghiwe	rajiv gandhi institute of technology	India	analysis on effect of temperature on moisture separation in air compressor
91	8-P1-78	Mr. Bidhan Mandal	Variable Energy Cyclotron Centre	India	Conceptual design of 4He film suppressor in Still of Dilution Refrigerator
110	8-P1-79	Mr. NILESHA JAGTAP	Tata institute of fundamental research	India	High pressure high flow helium purification system
120	8-P1-80	Mrs. Meifen Wang	IHEP, Chinese Academy of Sciences	China	The conceptual design of a zero boil-off LAr system for CDEX-10 experiment
127	8-P1-81	Mr. Jeongmin Cha	KAIST	Korea, South	Feasibility test of cryogenic free-piston expander utilizing magnetic brake
140	8-P1-82	Prof. Dong Xia	Institute of Electrical Engineering, Chinese Academy of Sciences	China	Research on characteristics of damping and shielding system of superconducting electrical machines
166	8-P1-83	Mr. Jian Li	Technical Institute of Physics and Chemistry, Chinese Academy of Sciences	China	Design of a 1.8 K superfluid helium system with a G-M cryocooler

Poster Session: Superconducting Material I

Chairperson: Prof. Venkat Selvamanickam & Dr. Qiuliang Wang

28A	8-P1-84	Prof. Herman Ten Kate	CERN & University of Twente	Switzerland	ReBCO-CORC based high current Cable-in-Conduit Conductors
36	8-P1-85	Mr. Uttam Bhunia	Variable Energy Cyclotron Centre	India	Transient stability of Nb-Ti Rutherford cables for energy storage magnet application
200B	8-P1-86	Prof. Tetiana Prikhna	Institute for Superhard Materials of the National Academy of Sciences of Ukraine	Ukraine	MgB ₂ -based superconductors for fault current limiters
199	8-P1-87	Prof. Mohammed Shahabuddin	King Saud University	Saudi Arabia	Correlation between grain connectivity, packing density, and critical current density in MgB ₂ synthesized by in situ/ex situ combination technique
92	8-P1-88	Mr. Vipendra Khare	Variable Energy Cyclotron centre	India	Joint development and testing of Rutherford NbTi cable for SMES coil
113	8-P1-89	Dr. Yuqiang Zhao	Technical Institute of Physics and Chemistry, Chinese Academy of Sciences	China	Abnormal thermal expansion and correlative magnetic properties in NaZn ₁₃ -type La(Fe _{1-x} Cox) _{11.4} Al _{1.6} compounds
114	8-P1-90	Dr. Dhruvananda Behera	NIT Rourkela	India	Effect of low energy ion beam irradiation for pinning of vortices in YBCO/LSMO thick films
162	8-P1-91	Mr. Pankaj Maheshwari	National Physical Laboratory	India	Phase Diagram of FeTe _{1-x} Se _x (0.0 ≤ x ≤ 0.50) Single Crystals

165	8-P1-92	Ms. Reena Goyal	CSIR-National Physical Laboratory	India	Superconductivity at 5.5 K in Nb ₂ PdSe ₅ compound
174	8-P1-93	Mr. Shaopeng Li	Technical Institute of Physics and Chemistry, Chinese Academy of Sciences	China	The effect of interstitial atoms on the negative thermal expansion property of cubic and tetragonal structure coexisted La(Fe,Si) ₁₃ compounds
176	8-P1-94	Dr. L.S. Vaidhyanathan	Indira Gandhi Center for Atomic Research	India	Superconductivity in Cr-Nb-Cr thin films
196	8-P1-95	Mr. Daniel Chavez	Texas A&M University - Universidad de Guanajuato	United States	NbTi cable-in-conduit and its applications for new collider magnet requirements
204	8-P1-96	Ms. Xinran Shan	Technical Institute of Physics and Chemistry, Chinese Academy of Sciences	China	Preparation and Property Study of Graphene Oxide Reinforced Epoxy Resin Insulation Nanocomposites with High Heat Conductivity
205	8-P1-97	Mr. Ningxiang Tong	Technical Institute of Physics and Chemistry	China	The effect of thermocycling treatment on the cryogenic properties of AISI 4340 steel
218	8-P1-98	Prof. Ouyang Zhengrong	xieyu	China	Experimental studies of diffusion welding of YBCO to copper using solder layers