

Abstract ID	Presentation	NAME	Name of the Organization	Country	Title
Poster Session: Large scale cryogenics III & Accelerator Cryogenics III					
Chairperson: Mr. Peter Knudsen & Prof. Polonski					
403	10-P3-186	Mr. A Mishra	Institute for Plasma Research	India	Optimization process parametres of heat exchnagers & turbiness for helium Liquefier/Refrigerator
426	10-P3-187	Mr. A K Sahu	IPR	India	Designof 2-stream (He-He-He) compact plate fin heat exchanger for helium plant
291	10-P3-188	Mr. Vivek Nema	Raja Ramanna Centre for Advanced Technology	India	Study of tube and tube heat exchanger for Helium purification
306B	10-P3-189	Dr. Francois BONNE	CEA/SBT	France	Modelling and Model-Based-Designed PID Control of the JT-60SA Cryogenic System Using the simCryogenics Library
317	10-P3-190	Dr. Hyun-Sik CHANG	ITER	France	Status of the ITER Cryodistribution Design
419	10-P3-191	Ms. NIKITA GUPTA	INSTITUTE FOR PLASMA RESEARCH	India	Design and analysis of air screw compressor for helium gas compression
318	10-P3-192	Mr. Eric FAUVE	ITER Organization	France	ITER Cryoplants Infrastructures
409	10-P3-193	Mr. Sourabh Jogee	Institute For Plasma Research	India	Design of Expansion Wheel with backward swept blade for Low temperature Helium Expansion Turbine and CFD Analysis result.
335	10-P3-194	Mr. Steffen Kloeppeel	TU Dresden	Germany	Mixed refrigerant cycle with neon, hydrogen and helium for the cooling of MgB2 power transmission lines

341	10-P3-195	Mr. Bharatbhushan Kamble	National Institute of Technology Calicut	India	Development of spiral tube heat exchanger for refrigeration applications
345	10-P3-196	Prof. Lianyou Xiong	TIPC, Chinese Academy of Sciences	China	Helium extraction and nitrogen removal from LNG boil-off gas
365	10-P3-197	Mr. Divyang Bohra	Institute For Plasma Research	India	Effect of charcoal Particle and Bed size for design of helium gas purification system at 20 K for Helium Plant
395	10-P3-198	Ms. yama joshi	Institute For Plasma Research	India	Design and development of Instrumentation and control system hardware and software modules for the cryogenic test facility
420	10-P3-199	Mr. Ronak Shah	Institute for Plasma Research	India	Design and CFD analysis of Compressor brake wheel for Low Temperature Helium Expansion Turbine.
329A	10-P3-200	Dr. Rui Ge	Institute of High Energy Physics, CAS	China	Cryogenic system for CADS injector I
342	10-P3-201	Mr. Pawel Duda	Wroclaw University of Technology	Poland	Design, optimization and operational parameters of multichannel cryogenic transfer line for XFEL AMTF
346	10-P3-202	Mr. Yung Yu	NSRRC	Taiwan	Design a Cryogenic system for Wavelength Shifter at NSRRC
364	10-P3-203	Mr. Czeslaw Fluder	CERN	Switzerland	The control systems for ATLAS and CMS cryogenics - main consolidations and improvements
382	10-P3-204	Dr. Ziemowit Malecha	Wroclaw University of Technology	Poland	The numerical evaluation of safety valve size in the pipelines of cryogenic installations

402	10-P3-205	Dr. Kota Nakanishi	High Energy Accelerator Research Organization (KEK)	Japan	Control systems for the 2K cryogenic systems at KEK-STF and KEK-cERL
418	10-P3-206	Dr. Yu Xiang	GSI Helmholtzzentrum für Schwerionenforschung GmbH	Germany	Cryogenic supply for Super-FRS at FAIR
423	10-P3-207	Dr. Holger Kollmus	GSI Helmholtzzentrum für Schwerionenforschung GmbH	Germany	Cryogenic Infrastructure for the Serial Test Facility for FAIR
429A	10-P3-208	Prof. Francesco Noto	INFN - LNS	Italy	Cryostat Conceptual Design for the LNS Cyclotron upgrade
Poster Session: Cryogenics for Fusion II & Space Cryogenics II Chairperson: Dr. N.K. Gupta & Dr. Biswanath Sarkar					
301	10-P3-209	Mr. Pratikkumar Nayak	Institute For Plasma Research	India	Design & Development of Liquid Nitrogen based Pre-Cooler for Solid Hydrogen Extruder
334	10-P3-210	Mr. Nitin Shah	ITER-India (Institute for Plasma Research)	India	Design of ITER relief lines
357	10-P3-211	Mr. Gaurav Singh	Institute for Plasma Research	India	Experimental Investigation of two-phase nitrogen cryo transfer line
406	10-P3-213	Mr. Himanshu Kapoor	ITER-India, Institute for Plasma Research	India	Warm and cold acceptance tests and their results for 1st Pre-Series Cryoline (PTCL) of ITER
133	10-P3-214	Mr. Anant Singhal	Liquid Propulsion Systems Centre / ISRO	India	Numerical Study of Gas Condensation in a Cryogenic Flow Line
164	10-P3-215	Mr. Gagan Agrawal	ISRO	India	Mathematical Modeling of Thermal Stratification in a Cryogenic Propellant Tank

248	10-P3-217	Mr. Arun M	TKM College of Engg.	India	LO2-CH4 Combustion Under Supercritical Conditions in a Rocket Thrust Chamber
281	10-P3-218	Dr. James Butterworth	Air Liquide Advanced Technologies	France	The Air Liquide 15K Pulse Tube Cooler for Space
425	10-P3-219	Dr. H.B. Naik	SVNIT, Surat	India	Developments in Thermoacoustic and Stirling thermal-to-electric converters
Poster Session: Cryocooler III Chairperson: Prof. S.L. Bapat					
235	10-P3-220	Dr. Xiaoshuang Zhu	Key Laboratory of Cryogenics, TIPC, CAS, China	China	Experimental research on a 12b k gas-coupled two-stage high frequency pulse tube cryocooler
250	10-P3-221	Mr. KUSHAL MOSAHARY	NATIONAL INSTITUTE OF TECHNOLOGY CALICUT	India	Design and analysis of stirling type inertance pulse tube cryocooler
280	10-P3-222	Mr. MATHEW SKARIA	TKM COLLEGE OF ENGINEERING	India	Computational Investigations on the performance of thermo-acoustically driven pulse tube refrigerator
287	10-P3-223	Dr. Milind Atrey	IIT Bombay	India	Investigation of transfer lines to separate a Pulse tube cold head from a linear compressor
327	10-P3-225	Prof. P. Ardhapurkar	S. S. G. M. College of Engineering Shegaon	India	Performance analysis of heat exchanger for mixed refrigerant Joule Thomson cryo-chamber
331	10-P3-226	Dr. XiaoTao Wang	Key Laboratory of Cryogenics, Chinese Academy of Sciences	China	Numerical Study of a 10 K Two Stage Pulse Tube Cryocooler with Precooling Inside the Pulse Tube
332	10-P3-227	Dr. B. Premachandran	Indian Institute of Technology Delhi	India	Porosity optimization of the regenerator for a miniature Stirling cryocooler

338	10-P3-228	Mr. K.N. Manoj	NIT Rourkela	India	Design and fabrication of a high cooling capacity single stage G-M type Pulse Tube Refrigerator
339	10-P3-229	Mr. Debashis Panda	NIT Rourkela	India	A mathematical model and design software for GM-type Pulse Tube Refrigerator
351	10-P3-230	Mr. Paresh Gujarati	S V National Institute of Technology, Surat	India	Novel numerical analysis of single stage GM type Orifice Pulse Tube Cryocooler
380	10-P3-231	Mr. GURUDATH SRIKANTIAH	ISRO Satellite Centre	India	Design Studies on Pulse Tube Cryocooler
Poster Session: Heat Transfer III Chairperson: Dr. Tushar Bhowmick					
260	10-P3-232	Dr. Shreya Mehta	L.D.College of Engineering	India	Theoretical analysis of coiled finned tube heat exchanger for helium liquefaction plant
262	10-P3-233	Mrs. Savitri Patel	C.K.Pithawala College of Engineering and Technology	India	Testing of insulation material for cryogenic temperature range
264	10-P3-234	Mr. Abhishekkumar Pandey	A.D Patel Institute of Technology	India	Performance testing and analysis of Vertical Ambient Air Vaporizers
266	10-P3-235	Mrs. Jyoti Agarwal	Institute for Plasma Research	India	Thermal diffusivity of G10 material at Cryogenic temperatures
292	10-P3-236	Mr. Manohar Karnal	ZARM Institute	Germany	Estimation of exhaust gas temperature of the rocket nozzle using hybrid approach

302	10-P3-237	Mr. RAVI VERMA	INDIAN INSTITUTE OF SCIENCE	India	Measurement of thermal conductivity of materials down to 4.5 K for development of cryosorption pumps
320	10-P3-238	Prof. Isabel Catarino	Faculdade de Ciencias e Tecnologia, Universidade Nova de Lisboa	Portugal	Feasibility study of parallel conduction cooling of NbTi magnet and sample probe in a cryogen-free magnet system
325	10-P3-239	Mr. Mustafa Chitalwala	Veermata Jijabai Technological Institute (V.J.T.I.)	India	Investigations of heat transfer across a multi-layer insulated liquid nitrogen transfer line
354	10-P3-240	Mrs. Bhagyashri Shah	Institute for Plasma Research	India	Finding friction factor for low temperature helium flow through serrated type plate-fin heat exchanger using CFD software and empirical co-relations
385	10-P3-241	Mr. Aaditya Pegallapati	Indian Institute of Technology Kharagpur	India	Optimum Location of Thermal Radiation Shield in Superconducting Rotating Machines
Poster Session: Superconducting magnet II & Superconductivity for Power II					
Chairperson: Prof. V.V. Rao					
310	10-P3-242	Dr. Hyun Chul Jo	Institute for Basic Science	Korea, South	Superconducting Magnet and Cryogenic Systems for In-Flight Separator of RISP in Korea
324	10-P3-243	Mr. Mahesh Ghatge	Institute For Plasma Reseach	India	Design and manufacturing of 30 kA Nb3Sn CICC for Fusion Relevant Superconducting Magnet
343	10-P3-244	Mrs. Ananya Kundu	Institute for Plasma Research	India	Design, analyses, fabrication and testing of conduction cooled Nb3Sn based coil in 1 W pulse tube cryocooler
388	10-P3-245	Dr. bajas hugo	CERN	Switzerland	A New Framework for Superconducting Magnet Behavior Analysis

391	10-P3-246	Dr. Roberto Zanino	Nemo Group, Dipartimento Energia	Italy	Analysis of the ITER Central Solenoid Insert (CSI) hydraulic characteristic
413	10-P3-247	Dr. S Gopalakrishna	NIT Rourkela	India	Design of non-solenoid magnet without the presence of magnetic materials
416	10-P3-248	Mr. Arman Nadaf	National Institute of Technology, Rourkela	India	Magneto-static simulation of inhomogeneity due to several thermo-mechanical factors in a 1.5 T multi-coil superconducting MRI magnet
429B	10-P3-249	Prof. Francesco Noto	INFN - LNS	Italy	Cryogenic developments in AISHa and SERSE ECR sources
231B	10-P3-250	Prof. Yonghua Huang	Shanghai Jiao Tong University	China	Pressure drop measurement of liquid nitrogen flow in bellows for HTS cable cooling
322	10-P3-251	Mr. Trilochan Penthia	National Institute of Technology, Rourkela	India	Integration of Superconducting coil with a Shunt Active power Filter for Power Quality Improvement in a Power Distribution System
370	10-P3-252	Mr. Mikhail Astrov	Efremov Institute of Electrophysical Apparatus	Russia	Field features of the current-carrying bifilar block for Superconducting Fault Current Limiter
374B	10-P3-253	Mr. Qinling ZHU	Western Superconducting Technologies Co., Ltd.	China	Design and optimization of Power supply for low Temperature Superconducting Magnet
411	10-P3-254	Dr. Asokan Kandasami	IUAC	India	Critical Current Densities of YBa ₂ Cu ₃ O ₇ / BaZrO ₃ composites
412	10-P3-255	Mr. Bilal Malik	Department of Physics,	India	Effect on critical current density of YBCO by the addition of Ag.

255	10-P3-256	Mr. Andreas Janzen	Karlsruhe Institute of Technology	Germany	Thermal noise of temperature measurement with Cernox sensors at various supply currents
Poster Session: Instrumentation & Control II , Cables & Other low temprature applications Chairperson: Dr. Benjamin Bradue & Prof. R. Karunanidhi					
276	10-P3-257	Mr. Rajendra Dutt	Inter University Accelerator Centre	India	Control and materials characterization System for 6T Superconducting Cryogen Free Magnet Facility at IUAC, New Delhi
306A	10-P3-258	Dr. Francois BONNE	CEA/SBT	France	Control of Warm Compression Stations Using Model Predictive Control: Simulation and Experimental Results
314	10-P3-259	Mr. Pascal Erni	WEKA AG	Switzerland	Cryogenic valves in restricted areas- Possible configuration of valve control elements
326	10-P3-260	Prof. Chandrashekhar Garde	Vishwakarma Institute of Information Technology	India	Automatic Transfer of Liquid Nitrogen from Storage Tank to Experimental Cryostat
336	10-P3-261	Mr. Prashant Khatri	Indian Istitute of Technology Kanpur	India	Low temperature DC coupled HEMT based voltage amplifier
358	10-P3-262	Prof. Gang Zhou	Technical Institute of Physics and Chemistry	China	The Measurement and Uncertainty Analysis of Thermal Resistance in Cryogenic Temperature Sensor Installation
397	10-P3-263	Ms. PRIYA NEMA	institute for plasma research	India	Dynamic analysis and development of process control system with Logics for Compressor and Oil Removal System of He Plant.

433	10-P3-264	Dr. Nagendran Ramasamy	IGCAR	India	Simple Variable Temperature Regulator suitable for physical property measurements at low temperatures
308	10-P3-265	Mr. Sanket Jadhav	Government College of engineering	India	Analytical and computational study of two phase flow in existing liquid nitrogen distribution piping at TIFR Mumbai and methods to improve liquid yield using subcooler
312	10-P3-266	Mr. Yannick Bessler	Forschungszentrum Juelich GmbH	Germany	Final design, fluid dynamic analysis and testing of a supercritical hydrogen Moderator for the European Spallation Source
207	10-P3-267	Mr. Zhang Deng	Key Laboratory of Cryogenics, Technical Institute of Physics and Chemistry, CAS, China	China	A novel liquid air energy storage in high- pressure state
356	10-P3-268	Mr. ABHINAV DESAI	S V NATIONAL INSTITUTE OF TECHNOLOGY	India	Optimization of thermoacoustic engine driven thermoacoustic refrigerator using response surface methodology
361	10-P3-269	Dr. Suman Ghosh	NIT Rourkela	India	A numerical investigation to capture the unsteady internal flow phenomena and heat transfer mechanism in roots type blower or pump
369	10-P3-270	Dr. Matthias Mentink	CERN	Switzerland	Superconducting transformer test bench for testing joints in high-current cables
379	10-P3-271	Ms. Susmita Koley	IIT Kharagpur	India	Performance analysis of continuous sorption cooling in single adsorbent bed using activated carbon hydrogen pair using LN2 as heat sink

383	10-P3-272	Mr. Umesh Pant	CSIR-National Physical Laboratory	India	Realization of triple point of argon (83.8058 K) at NPL India
434	10-P3-273	Mr Suresh Babu	IUAC	India	Design & Performance study of Vortex tube for low temperature Applications
Poster Session: Superconducting Material III Chairperson: Dr. Dutoit Betranad					
333	10-P3-274	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
337	10-P3-275	Prof. XIN YAO	SHANGHAI JIAO TONG UNIVERSITY	China	The growth of REBa ₂ Cu ₃ O _y superconductor bulk for practical application and fundamental study
355	10-P3-276	Dr. qingxiang wang	Western Superconducting Technologies Co	China	Preparation and performance of low loss NbTi superconducting wire with Cu ₁₀ Ni matrix
360	10-P3-277	Mr. Yonghua Li	Western Superconducting technologies co	China	Study of Low Loss NbTi Superconducting wires for HIAF Magnets
363	10-P3-278	Dr. Rajendra Meena	National Physical laboratory	India	Inter-comparison of Electric and Magnetic behaviour of superconducting quaternary Oxy-pnictide compounds

375	10-P3-279	Mr. Roland Gyuraki	Karlsruhe Institute of Technology	Germany	Measurement of inter-filament resistance in striated HTS coated conductors
389B	10-P3-280	Dr. Arend Nijhuis	University of Twente	Netherlands	AC loss and inter-tape resistance in REBCO stacked tape, CORC, CroCo and Roebel cables
396	10-P3-281	Mr. Gnanavelu Arulmurugan	LPSC	India	Indigenisation of AA2219-T8511 seamless tubes for the cryo propellant gauging applications in launch vehicles.
405B	10-P3-282	Mr. Muhammed Shah	King Saud University	Saudi Arabia	Optimization of In Situ/Ex Situ ratio for Best Low-Field Jc(B) Enhancement in Undoped MgB2
405A	10-P3-283	Mr. Muhammed Shah	King Saud University	Saudi Arabia	Sintering Temperature Effects on the Superconducting Properties of Reduced Graphene Oxide Doped MgB2 Synthesized by In Situ/Ex Situ Combination Technique
422	10-P3-284	Mr. Joshua Kellams	Texas A&M University	United States	Development of multifilament Nanoparticle Ag-enhanced textured-powder Bi-2212/Ag round wire
368	10-P3-285	Anakh Pal Anakhi	Lovely Professional University	India	Buckling Analysis of Torque Tube with Kevlar Composites for High Temperature Superconducting Motors