



Paper ID	Session	Accepted for the conference programme as	Title	corresp. author	Authors
073	1 Very Low Temperatures and their Application	lecture	The low temperature system of AEGIS	Eisel T.	Eisel T., Bremer J., Burghart G., Doser M., Dudarev A.
088	1 Very Low Temperatures and their Application	lecture	Studies of Adsorption Characteristics of Activated Carbons down to 4.5K for	Kasthuriengan S.	Kasthuriengan S., Behera U., Gangradey R., Krishnamoorthy V.,
071	1 Very Low Temperatures and their Application	poster	Cryogenic He experiment on natural turbulent convection	Kralik T.	Kralik T., Urban P.; Musilova V., Hanzelka P., Srnka A., Repisky A.
072	1 Very Low Temperatures and their Application	poster	Radiative heat transfer at low temperatures over microscopic distances in vacuo	Kralik T.	Kralik T., Musilova V., Hanzelka P., Horak M., Srnka A.
079	1 Very Low Temperatures and their Application	lecture	Modern ways of reaching and using millikelvin temperatures	Phelan K.	Wernicke D., Phelan K.
053	1 Very Low Temperatures and their Application	lecture	Compact Dilution Refrigerator for Sensor Cooling	Schneider M.	Schneider M., Arndt J., Giesel J., Zerweck-Trogisch U., Klier J., Herzog R.
013	2 Superconductivity and its Applications	poster	Design of a superconducting inductor for axial concentration flux motor	Ailam E.H.	Ailam E., Hachama M., Benallal M. N., Hocine A.
016	2 Superconductivity and its Applications	poster	Stability of YBCO coated conductor according to Cu stabilizer thickness for cryogenic applications	Bae J.H.	Bae J.H., Eom B.Y., Kim H.J., Seong K.C.
012	2 Superconductivity and its Applications	poster	Comparison study between several configurations of axial flux superconducting motors	Benallal M.N.	Benallal M. N., Ailam E., Hachama M., Hocine A.
036	2 Superconductivity and its Applications	lecture	Analysis of the SIS100 Superconducting Magnet Cooling	Bleile A.	Bleile A., Fischer E., Khozhibagiyan H., Mierau A.
037	2 Superconductivity and its Applications	lecture	Measurement of Dynamic Heat Losses in the Fast Ramped Superconducting Magnets for the SIS100 Synchrotron	Bleile A.	Bleile A., Fischer E., Khozhibagiyan H., Mierau A., Schnizer P.
049	2 Superconductivity and its Applications	poster	Study of Heat Electrodynamics Processes in High Temperature Superconductors (HTSC) Taking into Account Defects of Their Internal Structure	Dontsova E.	Arkharov A., Romanovskiy V., Dontsova E.



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033	2 Superconductivity and its Applications	poster	Properties of impregnated superconducting coils made from YBCO coated conductor using different technology of impregnation	Frolek L.	Frolek L., Seiler E., Šouc J.
015	2 Superconductivity and its Applications	lecture	Superconducting Current Feeders System for SST-1	Gupta N.C.	Gupta N.C., Garg A., Sonara D., Panchal R., Shah P., Nimavat H., Sharma A.N., Prasad U., Tanna V.L., Pradhan S.
054	2 Superconductivity and its Applications	lecture	Cooling systems for superconducting power applications – experiences gained in HTS cable and fault-current limiter projects	Hobl A.	Hobl A., Bock J., Schmidt F.
051	2 Superconductivity and its Applications	lecture	Components and Systems for HTS Applications	Kade A.	Kade A., Klupsch M., Kuhn M., Kaiser G., Herzog, R., Klier J.
002	2 Superconductivity and its Applications	lecture	Experimental Study of Superconducting Magnets for the NICA Accelerator Complex	Khodzhibagiyan H.	Khodzhibagiyan H., Bazanov A., Donyagin A., Galimov A., Karpinsky V., Kuznetsov G., Nikitaev P., Smirnov A., Trubnikov G.
017	2 Superconductivity and its Applications	poster	The cryogenic insulation characteristics of GFRP in Liquid Nitrogen	Kim H.J.	H. J. Kim, K. C. Seong, J. H. Choi, S. H. Kim
056	2 Superconductivity and its Applications	poster	Superconducting unclosed shields for improving homogeneity of the magnetic field in magnetic systems	Kulikov E.	Kulikov E., Agapov N., Dorofeev G., Drobin V., Malinovski H., Prokofichev Yu., Smirnov A., Trubnikov G.
011	2 Superconductivity and its Applications	poster	Design and Manufacture of Cryogenic Sub-Cooler for High Temperature Superconductors	Mahmoudian S.M.R.	Mahmoudian S.M.R., Alinejad N., Zandkarimi M., Zarvandi M.
042	2 Superconductivity and its Applications	lecture	Refrigeration Characteristics of Slush Nitrogen for High Temperature Superconducting Cable	Nakamura N.	Nakamura N., Komagome T., Lee Y, Ikeuchi M., Yaguchi H., Machida A, Boone J.



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026	2 Superconductivity and its Applications	lecture	The cryogenic system of the 43 T Hybrid magnet of LNCMI Grenoble, France	Ronayette L.	Ronayette L., Barbier R., Bredy Ph., Fazilleau Ph., Grandclement C., Hervieu B., Joss W., Juster FP., Pfister R., Pugnât P.
086	2 Superconductivity and its Applications	poster	Critical Current Degradation Analysis in Irradiated Superconducting Materials	Sosnowski J.	Sosnowski J.
062	3 Cryocoolers and their Applications	poster	Studies of Performance Characteristics of Twin Thermoacoustic Prime Mover with Gas Mixtures as Working Fluids	Behera U.	Behera U, Kasthuriengan S., Kamble B., Kuzhiveli B., Krishnamoorthy V.
066	3 Cryocoolers and their Applications	lecture	Development of two-stage Joule-Thomson Microcooler at University of Twente	Cao H.S.	H.S. Cao, H.J. Holland, C.H. Vermeer, S. Vanapalli, D.R. Zalewski, H.J.M. ter Brake
038	3 Cryocoolers and their Applications	lecture	Effects of the Inertance Tube on Pulse Tube Refrigerator Performance	Farouk B.	Antao, D. S., Farouk, B.
039	3 Cryocoolers and their Applications	lecture	A 3-Dimensional Numerical Study a Co-Axial type Acoustic Stirling Cryocooler	Farouk B.	Antao, D. S., Spoor, P., Corey, J., Farouk, B.
083	3 Cryocoolers and their Applications	poster	Study on the Miniature Turbo-Expander of Reverse Brayton Cryocooler at 100K	Hou Y.	Hou Y., Lai T., Zhao H., Chen R.
052	3 Cryocoolers and their Applications	lecture	3-Cycle Pulse Tube Cooler for Cryogenic High-Power Applications	Kuhn M.	Kuhn M., Kaiser G., Schildbach T., Schroeder G., Klier J., Herzog R
043	3 Cryocoolers and their Applications	poster	Multifunctional Measurement Apparatus for Thermophysical Property Based on GM Cryocooler	Liu H.	Huiming Liu, Dong Xu, Peng Xu, Xiangdong Xu, Laifeng Li, Linghui Gong
068	3 Cryocoolers and their Applications	poster	High-power Stirling-type pulse tube cryocooler for operation near 80 K	Thummes G.	Sun J., Dietrich M., Thummes G.
008	3 Cryocoolers and their Applications	lecture	Low temperature phase equilibria of refrigerant mixtures	Winkelmann D.	Winkelmann D., Oellrich L.R.
001	4 Cryogenics in Particle Physics / Space Cryogenics	lecture	Cryogenics for the future accelerator complex NICA at JINR	Agapov N.	Agapov N., Batin V., Emelianov N., Hisameev I., Krakovsky B.
010	4 Cryogenics in Particle Physics / Space Cryogenics	lecture	Thermal Design of Cryogenic Permanent Magnet Undulator for SLS	Anghel A.	Anghel A., Jakob B., Bruegger M., Schmidt T., Tanaka T., Kohda T.



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018	4 Cryogenics in Particle Physics / Space Cryogenics	lecture	The MITICA facility: a possible optimization of the Cryogenic Plant cooling capacity	Fellin F.	Fellin F., Haas H., Hanke S., Meunier L., Passardi G., Scannapiego M., Valente M., Zaccaria P.
030	4 Cryogenics in Particle Physics / Space Cryogenics	lecture	Design, Manufacturing and Assembly of the Cryogenic Transfer Line for XFEL/AMTF	Fydrych J.	Fydrych J., Chorowski M., Duda P., Grzegory P., Iluk A., Malcher K., Michalski G., Rusinski E., Strychalski G.
045	4 Cryogenics in Particle Physics / Space Cryogenics	lecture	Numerical simulation of mixed convection heat transfer to forced flow supercritical helium	Ghosh P.	Rebelo N., Ghosh P.
009	4 Cryogenics in Particle Physics / Space Cryogenics	lecture	Development of a two-phase thermosiphon for extreme cooling requirements in the tritium source of KATRIN	Grohmann S.	Grohmann S., Bode T., Hötzel M., Schön H., Süßer M., Wahl T.
021	4 Cryogenics in Particle Physics / Space Cryogenics	poster	Liquid cryogen targets for experiments in nuclear relativistic and particle physics	Konstantinov A.V.	Konstantinov A., Borzunov U., Shimanskiy S., Varava A.
065	4 Cryogenics in Particle Physics / Space Cryogenics	poster	Cryogenic System of Superconducting Separator for Kaon Channel of IHEP Accelerator	Kozub S.	Kozub S., Ageyev A., Orlov A., Zinchenko S.
019	4 Cryogenics in Particle Physics / Space Cryogenics	poster	Cool-down processes of NICA accelerator complex	Mitrofanova Y.A.	Mitrofanova Y., Agapov N., Batin V., Emelianov N., Nikiforov D., Shvidkiy D.
035	4 Cryogenics in Particle Physics / Space Cryogenics	poster	Design, manufacturing and assembly of XATC test cryostats for AMTF	Polinski J.	Polinski J., Bozhko Y., Petersen P., Chorowski M., Duda P., Grzegory P., Michalski G., Schaffran J., Strychalski G., Zhirnov A.
090	4 Cryogenics in Particle Physics / Space Cryogenics	poster	Status of the Cryogenic System for the Ariel E-LINAC at TRIUMF	Sitnikov A.	Sitnikov A., Bylinskii I., Koscielniak S., Koveshnikov A., Laxdal R., Yosifov D.



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055	4 Cryogenics in Particle Physics / Space Cryogenics	lecture	Presentation of the German DIN Working Group – Safety Devices for Helium Cryostats	Süsser M.	Grohmann S., Haberstroh Ch., Süßer M.
020	4 Cryogenics in Particle Physics / Space Cryogenics	lecture	Design proposal for MITICA Cryogenic Plant	Valente M.	Valente M., Fellin F., Haas H., Hanke S., Scannapiego M., Zaccaria P.
048	5 Cryomedicine, Therapy and Technology	poster	Dreams and Reality of Superhigh Frequency Cryogenic Technology in Surgery	Butorina A.	Butorina A., Arkharov A., Matveev V.
077	5 Cryomedicine, Therapy and Technology	lecture	Study of Contact Methods to Cool Biological Tissue in Local Cryosurgery	Kondratenko R.	Nesterov S., Kondratenko R.
006	5 Cryomedicine, Therapy and Technology	lecture	Cryotherapy state-of-art and challenges in Poland	Piotrowska A.	Chorowski M., Piotrowska A., Adamowicz B., Haladyn E.
004	6 Cryobiology, Preservation and Technology	lecture	Application of the Very Low Temperatures for the Preservation of Rare Plants' Seeds of Ukraine	Arapetyan E.	Arapetyan E., Usatenko Yu., Skibitska M.
064	6 Cryobiology, Preservation and Technology	lecture	Biological and technological challenges establishing a future-proof cryogenic biomaterialbank	Ciba P.	Ciba P, Böhmert B, Lermen D, Fuhr GR, Kruse C
089	6 Cryobiology, Preservation and Technology	lecture	State of Genetic Apparatus of Stem Compartment Cells of Cryopreserved Fetal Liver of Different Gestation Terms	Goltsev A.N.	Goltsev A.N., Lutsenko E.D., Dimitrov A.Yu., Durava T.G., Ostankov M.V., Yampolskaya E.Ye., Gaevskaya Yu.A., Babenko N.N., Chelombitko O.V.
046	6 Cryobiology, Preservation and Technology	lecture	Analysis on protein stability in Tris buffered purified bulk solutions during the freezing process	Heidingsfelder J.	Heidingsfelder J., Reinsch H., Klier J., Herzog R.
070	6 Cryobiology, Preservation and Technology	lecture	Safety and Quality Assurance in Donation, Harvest and Preservation of Cells and Tissues of Human Origin – A Review of Own Experience	Měříčka P.	Měříčka, P., Straková, H., Štěrba, L.



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087	6 Cryobiology, Preservation and Technology	lecture	Cryopreservation of mesenchymal stromal cells by vitrification in multicomponent solutions	Petrenko A.	Petrenko A.Yu., Trufanova N.A., Petrenko Yu.A.
074	6 Cryobiology, Preservation and Technology	lecture	Standardization of the cryopreservation process for parathyroid glands	Von Walcke-Wulffen,	Von Walcke-Wulffen, V.-J.
003	6 Cryobiology, Preservation and Technology	lecture	Coupled Transport of Water and Cryoprotectant across Cell Membranes and Applications to Cryopreservation	Weng L.	Weng L., Li W.
075	6 Cryobiology, Preservation and Technology	lecture	Cryomechatronics in the context of biobanking: The technology of the central HIV-biobank for vaccine research.	Zimmermann H.	Zimmermann H.
022	7 Liquefaction and Separation of Industrial Gases	lecture	Enrichment of rare gases concentrates with application of diaphragm technologies	Bondarenko V.L.	Bondarenko V.L., Losyakov N.P., Simonenko Yu.M., Chuklin A.P.
023	7 Liquefaction and Separation of Industrial Gases	poster	Mixtures on basis of rare gases. Application and methods of production	Bondarenko V.L.	Bondarenko V.L., Diachenko O.V.
024	7 Liquefaction and Separation of Industrial Gases	lecture	Cascade units for neon isotope production by rectification method	Bondarenko V.L.	Bondarenko V.L., Simonenko Yu.M., Simonenko O.Yu., Yemelyanov A.M., Luschik A.A.
058	7 Liquefaction and Separation of Industrial Gases	lecture	Air Separation Unit installation and qualification at the French Guyana Space Centre	Burdaszewski P.	Burdaszewski P
059	7 Liquefaction and Separation of Industrial Gases	lecture	Assessment of the Storage of Crude Helium in Reserves in Europe and elsewhere.	Clarke R.	Clarke R., Scurlock R.
014	7 Liquefaction and Separation of Industrial Gases	poster	Analysis of precooling process in a helium liquefaction system with a G-M cryocooler	Gong L.H.	Xu D., Xu X.D., Gong L.H., Liu H.M., Li L.F.
076	7 Liquefaction and Separation of Industrial Gases	lecture	Thermosiphon Tanks for reliable pump operation	Hnizdil T.	Hnizdil T., Lánský M., Chrz V.



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084	7 Liquefaction and Separation of Industrial Gases	poster	Experimental investigation on the thermodynamic performance of turbo-expander in two phases	Hou Y.	Lai T., Hou Y., Niu L.
027	7 Liquefaction and Separation of Industrial Gases	poster	Design of a cryogenic helium plate-fin heat exchanger	Hu Z.J.	Hu Z.J., Qiu Y.N., Zhang N., Li Q.
047	7 Liquefaction and Separation of Industrial Gases	lecture	Exergy Analysis to Determine Appropriate Design and Operating Parameters for Collins Refrigerator-Liquefier under Mixed Mode Operation	Chowdhury K	Chowdhury K; Kundu A.; Thomas R. J; Ghosh P
085	7 Liquefaction and Separation of Industrial Gases	lecture	Oxygen Supply for CO2 Capture by Oxyfuel Coal Combustion	Kalbassi M.	Kalbassi M., Higginbotham P., Gibson S.
007	7 Liquefaction and Separation of Industrial Gases	lecture	Thermodynamic analysis of liquid oxygen production system based on coupling Joule-Thomson cooler with PSA	Piotrowska A.	Piotrowska A., Chorowski M.
029	7 Liquefaction and Separation of Industrial Gases	poster	Study concerning the possibility for increasing argon recovery from a cryogenic air separation process	Popa V.	Popa V., Cuzic M., Serban Al.
060	7 Liquefaction and Separation of Industrial Gases	lecture	The Future of Helium? A Global Agency to Oversee Production, Storage, Supply and Use of Helium Gas and Liquid.	Scurlock R.	Scurlock R., Clarke R., Glowacki B., Nuttall W.
063	7 Liquefaction and Separation of Industrial Gases	rejected	Energy Saving Opportunities In Oxygen Plant –A CASE STUDY	Sonani B.J.	Sonani B.J., Ratnadhariya J.K.
028	7 Liquefaction and Separation of Industrial Gases	poster	Development of an Equation of State for the Representation of Solid-Liquid, Solid-Vapour, and Liquid-Vapour Equilibria of Substances of Interest for the Air Distillation Process	Stringari P.	Campestrini M., Stringari P.
040	8 Liquefied Natural Gas	lecture	LNG as vehicle fuel in Italy	Arteconi A.	Arteconi A., Polonara F.
041	8 Liquefied Natural Gas	lecture	A multiobjective optimization for micro-scale liquefaction plants	Arteconi A.	Arteconi A., Polonara F.
031	8 Liquefied Natural Gas	lecture	Conceptual Design of an Efficient Small LNG Production Facility	Quack H.	Quack H.



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057	9 Cryogenic Energy Storage and Cryogenic Fuels	poster	The possibility application of LNG heat of vaporisation in the oxygen production from the atmospheric air by TSA method.	Banaszkiewicz T.	Banaszkiewicz T., Chorowski M.
061	9 Cryogenic Energy Storage and Cryogenic Fuels	lecture	The development of methods and means for long-term storage of liquid hydrogen of high purity	Cheremnykh O. Ya.	Cheremnykh O. Ya.
069	9 Cryogenic Energy Storage and Cryogenic Fuels	poster	The development of methods and means of gasification of liquid hydrogen under supercritical parameters	Cheremnykh O. Ya.	Cheremnykh O. Ya.
082	9 Cryogenic Energy Storage and Cryogenic Fuels	poster	The development of methods and means of evacuation of hydrogen from tanks of a space flying apparatus under supercritical parameters	Cheremnykh O. Ya.	Cheremnykh O. Ya.
078	9 Cryogenic Energy Storage and Cryogenic Fuels	lecture	Feasibility Study of "CO <sub>2</sub> free hydrogen chain" utilizing Australian brown coal linked with CCS	Kenji I.	Inoue Kenji, Yoshino Yasushi, Harada Eiichi
050	9 Cryogenic Energy Storage and Cryogenic Fuels	lecture	A new cryogenic high-pressure H <sub>2</sub> test area: First results	Klier J.	J. Klier, G. Kaiser, M. Klupsch, A. Kade, M. Schneider, R. Herzog
067	9 Cryogenic Energy Storage and Cryogenic Fuels	lecture	Thermophysical Properties of Hydrogen and Deuterium at all Ortho-Para Compositions	Leachman J.	Leachman J., Richardson I.
044	9 Cryogenic Energy Storage and Cryogenic Fuels	cancelled by the author	Integrated Refrigeration and Storage for Liquid Hydrogen Ground Servicing	Notardonato W.	Notardonato, W., Oliviera, J., Tomsik, T., Baik, J.
081	9 Cryogenic Energy Storage and Cryogenic Fuels	lecture	Search for the Best Processes to Liquefy Hydrogen in Very Large Plants	Quack H.	Quack H., Essler J., Haberstroh Ch.
005	9 Cryogenic Energy Storage and Cryogenic Fuels	lecture	Liquid Natural Gas exergy utilization by coupling the LNG regasification unit and filling system for Natural Gas adsorption storage tanks	Rozsak E.	Rozsak E., Chorowski M.
025	9 Cryogenic Energy Storage and Cryogenic Fuels	lecture	Cryogenic hydrogen storage in highly porous materials – A modelling approach –	Schlemminger C.	Schlemminger Ch., Næss E., Bünger U.





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080	9 Cryogenic Energy Storage and Cryogenic Fuels	lecture	Principles for the liquefaction of hydrogen with emphasis on pre-cooling processes	Walnum H.T.	Walnum H.T., Berstad D., Drescher M., Nekså P., Quack H., Haberstroh Ch., Essler J.
034	10 Industrial Applications of Cryogenic Gases	poster	Test procedures for cryogenic components and considerations for leakage measurement	Boersch M.	Boersch, M., Holdener, F., Iten, E., Oertig, D.
032	10 Industrial Applications of Cryogenic Gases	lecture	Advanced Cryogenic Process for low Purity Oxygen Production	Kirchner L.	Kirchner, L., Lochner, S.