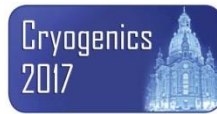


The 14th CRYOGENICS 2017

IIR International Conference & Exhibition



Dresden, Germany

May 15 – 19, 2017



PROGRAMME

Updated: April 24, 2017

Top Conference Partner

ILK Dresden



Conference Bags Sponsor



Welcome Party Sponsor



Conference USB Proceedings Sponsor



Conference Organization



ICCEX Ltd.

Praha, Czech Republic

www.iccex.cz

Contact person: Romana Kočová / romana@iccex.cz

PROGRAMME IN DETAIL

FOLLOW THE INFO POSTER IN THE REGISTRATION AREA TO CHECK POSSIBLE CURRENT CHANGES.

MONDAY, MAY 15, 2017

REGISTRATION

16:00 – 19:00

WELCOME PARTY

Sponsored by [HEROSE GmbH](#)



19:30 – 21:00

TUESDAY, MAY 16, 2017

OPENING CEREMONY

Chair: Chrz V., Coulomb D., Herzog R.

09:00 OPENING CEREMONY

SESSION I / CRYOGENICS IN PARTICLE PHYSICS I

Chairs: Srnka A., Herzog R.

09:15 076 ●●● KEYNOTE ●●●

OVERVIEW OF THE DEVELOPMENT AND PROTOTYPING OF THE CRYOSTATS AND CRYOGENIC SYSTEMS FOR THE LBNF/DUNE PROJECT

Bremer Johan, Adamowski Mark, Chalifour Michel, Michael Geynisman, Haaf Kevin, Creus Prats Joaquim, Nessi Marzio, Norris Barry, Montanari David

09:35 054 **PROGRESS OF THE FAIR CRYOGENIC SYSTEM**

Kollmus Holger, Kauschke Marion, Martínez-López Mónica, Täschner Alexander, Schroeder Claus H.

09:55 031 **THE STATUS OF THE MANUFACTURING AND TESTING OF SC MAGNETS FOR THE NICA PROJECT AND SIS100 SYNCHROTRON**

Khodzhibagiyev Hamlet, Fischer Egbert

10:15 045 **CRYOGENIC SYSTEM FOR MULTI-PURPOSE DETECTOR AT NICA**

Nikita Emelianov, Nikolay Agapov, Anton Konstantinov, Iulia Mitrofanova, Anton Emelianov

10:35 096 **THE CRYOGENIC SYSTEM FOR THE ULTRA-COLD NEUTRON SOURCE OF THE TECHNICAL UNIVERSITY OF MUNICH : MAIN FEATURES AND COMMISSIONING**

Bernhardt Jean-Marc, Dauguet Pascale, Hergat Thibault, Mantileri Christophe,

De Maeyer Peter, Frei A., Bocquet C., Cristiano F., Schilcher J., Wensch S., Wlokka S.

COFFEE BREAK

10:55 – 11:15

SESSION II / CRYOGENICS IN PARTICLE PHYSICS II

Chairs: Herzog R., Srnka A.

11:15 039 **OVERVIEW OF THE LIQUID ARGON CRYOGENICS FOR THE SHORT BASELINE NEUTRINO PROGRAM (SBN) AT FERMILAB**

Norris Barry, Bremer Johan, Chalifour Michel, Delaney Mike, Dinnon Mike, Doubnik Roza, Geynisman Michael, Hentschel Steve, Kim Min Jeong, Montanari Claudio, Montanari David, Schwartz Frederick, Stefanik Andy, Tillman Justin, Zuckerbrot Mike

11:35 029 **OPERATIONAL DATA ANALYSIS OF THE STANDARD COMMERCIAL HELIUM LIQUEFIER/REFRIGERATOR**

Nagimov Ruslan, Kishi David, Koscielniak Shane, Koveshnikov Alexey, Laxdal Robert

11:55 034 **MASS FLOW REDUCTION BY A HEATER-CAPILLARY COMBINATION FOR THE CRYOGENIC SYSTEM OF SIS100 AT FAIR**

Eisel Thomas, Kauschke Marion, Schroeder Claus H., Streicher Branislav, Szeligowska Anna, Walter Franz, Kollmus Holger

12:15 055 **CRYOGENICS FOR THE SUPER-FRS AT FAIR**

Wamers Felix, Xiang Yu, Kauschke Marion, Martínez-López Mónica, Schroeder Claus H., Täschner Alexander, Kollmus Holger

- 12:35 037 ANALYSIS OF THE THERMAL LOADS ON THE NICA ACCELERATOR COMPLEX**
Konstantinov Anton, Khodzhbagiyam Hamlet, Agapov Nikolay, Mitrofanova Lullia
- 12:55 084 THE ANALYSIS OF THE THERMO-ACOUSTIC OSCILLATION EFFECT OCCURRENCE POSSIBILITY AND MITIGATION FOR THE VALVE BOXES OF CRYOGENIC DISTRIBUTION SYSTEM FOR THE ESS LINAC ELLIPTICAL SECTION**
Polinski Jaroslaw, Chorowski M., Fydrych J.

LUNCH BREAK

13:15 – 14:00

SESSION III / SUPERCONDUCTIVITY

Chairs: Delikaris D., Kade A.

- 14:00 024 ●●● KEYNOTE ●●●**
STATUS OF THE NICA CRYOGENICS AT JINR
Mitrofanova Lullia, Agapov Nikolay, Konstantinov Anton, Krakovsky Boris, Popov Oleg, Udut Vadim
- 14:20 075 SERIAL CRYOGENIC TESTS OF SC-MAGNETS FOR NICA PROJECT**
Nikiforov Dmitry, Kostromin Sergey, Loshmanova Kseniia
- 14:40 021 CRYOGENIC INFRASTRUCTURE FOR THE SERIAL MAGNET TEST FACILITY FOR FAIR**
Schroeder Claus H., Walter Franz, Beusch Andreas, Breidert Anna, Streicher Branislav, Eisel Thomas, Kollmus Holger
- 15:00 047 EVALUATION OF MECHANICAL DISPLACEMENTS IN SUPERCONDUCTING ACCELERATOR MAGNET ARRAYS**
Ceballos Velasco Jorge, Serna Moreno María del Carmen, Datskov Vladimir, Fischer Egbert
- 15:20 041 CRYOGENICS IN HIGH-CURRENT BUSBARS – SOLUTIONS AND REQUIREMENTS**
Hanebeck Claus, Huwer Stefan, Schreiner Florian, Reiser Wolfgang
- 15:40 093 SIS100 HTS LOCAL CURRENT LEADS - CRYOGENIC PERFORMANCE**
Datskov Vladimir, Bleile Alexander, Hess Guenter, Fischer Egbert

COFFEE BREAK

16:00 – 16:20

SESSION IV / SUPERCONDUCTIVITY & CRYOGENICS

Chairs: Mierau A., Králík T.

- 16:20 104 CRYOGENIC COMPONENTS FOR A SUPERCONDUCTING DC-RAIL**
Zerweck Ulrich, Kuhn Moritz, Kade Andreas, Wischer Manuel, Schroeder Gunar, Klier Jürgen
- 16:40 046 CHALLENGES OF HIGH FIELD LARGE BORE SUPERCONDUCTING “OUTSERTS” FOR RESEARCH MAGNETS**
Neil Clarke, Steven Ball, Joe Brown, Ziad Melhem, Andy Twin, Dave Warren
- 17:00 019 PROTOTYPE MODULAR CRYOSTAT UTILIZED FOR 10 MW OFFSHORE SUPERCONDUCTING WIND TURBINE**
Sun Jiuce, Sanz Santiago, Ramalingam Rajinikumar, Neumann Holger
- 17:20 052 COMMISSIONING RESULTS OF THE JT-60SA CRYOGENIC SYSTEM**
Hoa Christine, Bonne François, Roussel Pascal, Lamaison Valerie, Girard Sylvain, Fejoz Pascal, Goncalves Romain, Vallet Jean-Claude, Legrand Jerome, Langevin Baptiste, Maccagnan Michel, Pudys Vincent, Wanner Manfred, Cardella Antonino, Di Pietro Enrico, Kamiya Koji, Natsume Kyohei, Ohtsu Kiichi, Oishi Makoto, Honda Atsushi, Kashiwa Yoshitoshi, Kizu Kaname, Koide Yoshihiko
- 17:40 103 ROLE OF THE SUPERCONDUCTIVITY IN RADIATIVE HEAT TRANSFER**
Králík Tomáš, Musilová Věra, Srnka Aleš, Fořt Tomáš, Frolec Jiří

SESSION V / HYDROGEN & HELIUM

Chairs: Haberstroh Ch., Kundera R.

- 08:30 001 ●●● KEYNOTE ●●●**
PROBLEMS OF BULK STORAGE AND SHIPPING OF LIQUID HYDROGEN IN VOLUMES OF 10,000 TO 100,000 CUBIC METERS AT ONE BAR PRESSURE
Scurlock Ralph presented by Christoph Haberstroh
- 08:50 006 UNDERSTANDING THE PHYSICAL PHENOMENA THAT OCCUR INSIDE HEAT EXCHANGERS FOR LIQUEFACTION OF HYDROGEN**
Wilhelmsen Øivind, Skaugen Geir, Berstad David, Aasen Ailo, Neksa Petter
- 09:10 056 ASPECTS OF HYDROGEN LIQUEFIER SCALE-UP – PROCESS AND EQUIPMENT DESIGN**
Cardella Umberto, Decker Lutz, Klein Harald
- 09:30 063 CRYOGENIC CO₂ CONDENSATION AND MEMBRANE SEPARATION OF SYNGAS FOR LARGE-SCALE LH₂ PRODUCTION**
Berstad David, Wilhelmsen Øivind, Skjervold Vidar, Neksa Petter
- 09:50 010 STUDY ON SET PRESSURE ADJUSTMENT METHODS OF CRYOGENIC SPRING LOADED SAFETY RELIEF VALVES**
Weber Christina, Heidt C., Henriques A., Schwenzer J.C., Grohmann S.
- 10:10 051 SIMULATION OF GAS FLOW THROUGH CRYOGENIC HELIUM MIXED-FLOW TURBINE AND HELIUM TURBINES IN-HOUSE TESTING AND VIBRATION DIAGNOSTICS**
Kohut Vojtěch, Kundera Radovan, Chromek Lukáš

COFFEE BREAK

10:30 – 10:50

SESSION VI / CRYOBIOLOGY

Chairs: Spörl G., Měříčka P.

- 10:50 026 ●●● KEYNOTE ●●●**
CRYOPRESERVATION BY VITRIFICATION: BASIC THERMODYNAMIC PRINCIPALS, METHODS AND DEVICES
Katkov Igor I., Bolyukh Vladimir F.
- 11:10 038 LOW TEMPERATURE PHOTO PYROELECTRIC STUDY ON THE GLASSY STATE IN THE PRESENCE OF CRYOPROTECTANTS - COMPARISON WITH DSC AND VISCOSITY STUDIES**
Mathew Allen, Escorne Benoit, Ellass Abdelaziz, Goutier Fabrice, Baudot Anne, Louis Gérard, Hadj Saharaoui Abdelhak
- 11:30 005 HOW LONG DO WE NEED TO STORE CRYOPRESERVED CELLS AND TISSUES**
Mericka Pavel, Strakova Hana, Lanska Miriam, Belada David, Zak Pavel, Sterba Lubomir, Brandejs Daniel, Honegrova Barbora
- 11:50 014 FROM VIAL TO MULTIWELL - CONTROLLED RATE FREEZING IN A CONVECTIVE ENVIRONMENT**
Reinsch Holger, Kretschmer René, Spörl Gabriele
- 12:10 114 CRYO-HANGING DROPS: TOWARDS READY-TO-USE FROZEN BIOLOGICAL SAMPLES FOR SCREENING PURPOSES IN 96 WELL PLATE FORMAT**
Meiser Ina, Schmidt Katharina, Neubauer Julia C., Zimmermann Heiko

LUNCH BREAK

12:30 – 14:00

SESSION VII / LIQUEFIED NATURAL GAS

Chairs: Lánský M., Kundera R.

- 14:00 023 CO₂ AND H₂S CRYOGENIC REMOVAL PROCESS EVALUATION FOR THE BIOGAS UPGRADING AND LIQUEFACTION**
Spitoni Marco, Xiong Xiaojun, Arteconi Alessia, Polonara Fabio, Lin Wensheng
- 14:20 012 PERFORMANCE ANALYSIS ON A NOVEL SMALL-SCALE AUTO-CASCADE NATURAL GAS LIQUEFACTION SYSTEM UTILIZING A RECTIFYING COLUMN**
Song Qi, Wang Hui, Ren Bin, Wang Qin, Chen Guangming

- 14:40 090 **ANALYSIS OF CASCADE CYCLE AND REVERSE BRAYTON CYCLE BASED BOG RELIQUEFACTION SYSTEMS FOR THEIR SUITABILITY IN LNG CARRIER SHIPS WITH DUAL FUEL ENGINES**
Kochunni Sarun Kumar, Chowdhury Kanchan
- 15:00 092 **BRAZED PLATE HEAT EXCHANGER (BPHE) FOR SMALL SCALE NATURAL GAS LIQUEFACTION PLANT APPLICATION**
Ju Yonglin, Wu Jitan, He Tianbiao, Felgenhauer Bjorn, Cong Peizhong
- 15:20 109 **COMPACT LNG REGASIFICATION PLANTS AND FUELING STATIONS**
Pavlak Josef, Matl Pavel
- 15:40 057 **AN EXPERIMENTAL STUDY ON THE WORKING CHARACTERISTICS OF A METHANE-CHARGED CRYOGENIC LOOP HEAT PIPE**
Guo Yuandong, Lin Guiping, Zhang Hongxing, Miao Jianyin, He Jiang, Bai Lizhan

COFFEE BREAK

16:00 – 16:20

SESSION VIII / CRYOCOOLERS & COOLING CYCLES

Chairs: Klier J., Grohmann S.

- 16:20 108 **CRYOGENIC COOLING SYSTEM BRAYTON WITH NEW CONFIGURATION FOR 10 J/10 HZ YB:YAG MULTI-SLAB BASED LASER SYSTEM AT ELI-BEAMLINES PROJECT**
Schustr Pavel, Fibrich M., Polan J., Rus B., Dostalova M., Plasil V., Simek J.
- 16:40 017 **NUMERICAL MODELING OF POROUS NOZZLES FOR REGENERATOR OF STIRLING CRYOCOOLER**
Arkharov Ivan, Navasardyan Ekaterina, Parkin Alexey, Kulik Viktoriya
- 17:00 028 **INFLUENCE OF CRYOGENIC TEMPERATURE PROCESSES ON THE WORK OF THE LINEAR PULSE ELECTROMECHANICAL CONVERTER**
Bolyukh Vladimir F., Kryukova Natalia V., Katkov Igor I.

POSTER SESSION

17:30 – 18:30

Chairs: Grohmann S., Haberstroh Ch.

THE LIST OF ALL POSTERS AVAILABE BELOW.

POSTER COMPETITION – THE EVALUATION DEADLINE: ON THURSDAY DURING THE LUNCH BREAK

THURSDAY, MAY 18, 2017

SESSION IX / DESIGN OF INDUSTRIAL EQUIPMENT

Chairs: Vinš M., Polinski J.

- 08:30 085 **COMPACT PLUG&PLAY MONITORS FOR PRECISE LOW TEMPERATURE MEASUREMENTS**
Fischer Egbert, Datskov Vladimir, Seifert Frank, Gust Norbert, Kade Andreas, Klier Jürgen
- 08:50 053 **EXPERIMENTAL STUDY ON THERMAL STRESS OF CRYOGENIC TANK DURING DIFFERENT COOL DOWN PROCESS**
Zhu Kang, Ma Yuan, Li Cui, Li Yanzhong
- 09:10 094 **CRYOGENIC SAFETY VALVES TO PROTECT SYSTEMS IN ITER DURING QUENCH**
Boersch Michael, Drache Johannes, Weber Daniel
- 09:30 099 **ANALYTICAL MODEL FOR A LEAK DETECTION SYSTEM ON ARIANE 5 LAUNCHER CRYOGENIC INTERFACES**
Cencetti Marco, Niccolai Jean-François
- 09:50 072 **A COMPUTATIONAL STUDY FOR CHARACTERIZING CAVITATING FLOW IN HYDROFOILS OPERATING AT CRYOGENIC CONDITIONS**
Mishra Arpit, Roy Arnab, Ghosh Parthasarathi
- 10:10 007 **MODELLING OF A COUNTER-FLOW HEAT EXCHANGER FOR CRYOGENIC MIXED REFRIGERANT CYCLES**
David Gomse, Thomas M. Kochenburger, Steffen Grohmann

COFFEE BREAK

10:30 – 10:50

SESSION X / CRYOBIOLOGY & CRYOTHERAPY

Chairs: Sumida S., Katkov I.

- 10:50 110 ●●● KEYNOTE ●●●**
OBSERVATIONS OF PROLIFERATION AND DIVISION OF FROZEN-THAWED MESENCHYMAL STEM CELLS (MSCS) USING A TIME-LAPSE CINEMICROSCOPY
Sumida Sajio, Kitamura T., Kaihou T., Rowe A.W.
- 11:10 112** **STUDY OF REHYDRATION INJURY IN LYOPHILIZED RED BLOOD CELLS**
Li Wenhui, Hong Shuqing, Zhang Ying, Li Ling, Song Ning, Zhou Xiaoming, Liu Zhong
- 11:30 018** **MAY THE SURGERY BE A SOURCE OF HAPPINESS?!**
Butorina Antonina, Vozdvizhenskiy Ivan, Arkharov Alexey, Matveev Valeriy
presented by Arkharov Ivan
- 11:50 059** **IMPACT OF PERSONAL CHARACTERISTICS ON WHOLE BODY CRYOSTIMULATION SETTINGS: A NUMERICAL SIMULATION STUDY USING THE FPC MODEL**
Bröde Peter, Fiala Dusan, Viroux Patrick, Tiemessen Ivo, Trembley Jon P.

LUNCH BREAK

12:10 – 13:15

SESSION XI / RARE GASES

Chairs: Schustr P., Symonenko Iu.

- 13:15 080** **LOW-TEMPERATURE NATURAL HELIUM SEPARATION PROCESSES FOR OBTAINING 3HELIUM ISOTOPE**
Kupriyanov Maksim
- 13:35 016** **THE ANALYSIS OF REFRIGERATION CYCLES IN THE TECHNOLOGIES OF PRODUCING OF NEON AND ITS STABLE ISOTOPES AT T = 28 K**
Bondarenko Vitaly, Dalakov Petar, Symonenko Iurii, Matveev Eduard
- 13:55 025** **NEW CRYOGENIC PROCESSES IMPLEMENTED FOR 3 γ MEDICAL IMAGING WITH LIQUID XENON**
Virone Loïck, Beaupère Nicolas, Briend Pierre, Butterworth James, Carlier Thomas, ChereL Michel, Cussonneau Jean-Pierre, Gallego Lucía, Le Ray Patrick, Masbou Julien, Morteau Éric, Staempflin Martin, Stutzmann Jean-Sébastien, Thers Dominique
- 14:15 015** **THE EXTRACTION OF RARE GASES BY DESUBLIMATION METHOD**
Chyhrin Artem, Pylypenko Borys, Bondarenko Andrey
- 14:35 013** **THE USING OF GAS-DYNAMIC COOLERS AT CRYOGENIC TEMPERATURES**
Bondarenko Vitaly, Tyshko Dmytro, Vigurginska Svitlana

COFFEE BREAK

14:55 – 15:15

SESSION XII / AIR SEPARATION & CRYOGENIC ENERGY STORAGE

Chairs: Chrz V., Arkharov I.

- 15:15 106** **LIQUID AIR ENERGY STORAGE - PART OF THE JOINT PROJECT "OFFSHORE WIND SOLUTION"**
Großmann Björn, Eggers Detlef, Bobsin Philipp, Wendt Christian, Matthies Rene, Ebert Kevin, Glück Nikolai
- 15:35 098** **ENERGY AND EXERGY ANALYSIS OF USING LIQUID AIR FOR GENERATING AIR CONDITIONING AND POWER FOR DOMESTIC BUILDINGS**
Ahmad Abdalgader, Al-Dadah Raya, Mahmoud Saad
- 15:55 008** **EXERGY-BASED METHODS FOR AIR SEPARATION**
Tesch Stefanie, Morosuk Tatiana, Tsatsaronis George
- 16:15 086** **IDENTIFICATION OF DETERIORATED COMPONENTS IN AN AIR SEPARATION PLANT AND EVALUATING THEIR IMPACT ON OVERALL PERFORMANCE THROUGH STEADY STATE SIMULATION**
Singla Rohit, Chowdhury Kanchan
- 16:35 091** **ANALYSIS FOR A SAFER DESIGN OF HIGH PRESSURE OXYGEN PRESSURE REDUCING STATIONS IN STEEL PLANTS**
Posa Lokesh, Ghosh Parthasarathi, Chowdhury Kanchan

16:55 030 **CRYOGENICS-BASED ENERGY STORAGE CONCEPTS: EVALUATION USING EXERGY-BASED METHODS**
Hamdy Sarah, Tatiana Morosuk, George Tsatsaronis

CLOSING CEREMONY / POSTER AWARD / FAREWELL

17:15 – 17:45

CONFERENCE DINNER

19:30 – 23:00

FRIDAY, MAY 19, 2017

TECHNICAL EXCURSIONS

08:30 ILK DRESDEN

08:30 HZDR

12:30 LEIBNIZ INSTITUTE

POSTERS A1

- A1 004 **CRYOGENIC SYSTEM AND TEMPERATURE CONTROL OF SUPERCONDUCTING WIGGLERS WITH INDIRECT COOLING**
Bragin A.V., Khruschev S.V., Mezentsev N.A., Lev V., Shkaruba V.A., Tsukanov V.M., Syrovatin V.M., Tarasenko O.A., Volkov A.A., Zolotarev K.V.
- A1 027 **EXERGETIC ANALYSIS OF REVERSE BRAYTON CRYOCOOLER FOR DIFFERENT COOLING LOADS AT 65 K FOR HTS CABLES**
Dhillon Aman Kumar, Dutta Rohan, Ghosh Parthasarathi
- A1 032 **THERMAL PERFORMANCE OF A HELIUM PULSATING HEAT PIPE**
Pfothenhauer John, Fonseca Luis Diego, Miller Franklin
- A1 033 **A MODEL FOR MANUSCRIPT SUBMITTED TO THE 14TH IIR CONFERENCE ON OVERVIEW OF THE LONG-BASELINE NEUTRINO FACILITY CRYOGENIC SYSTEM**
Montanari David, Adamowski Mark, Bremer Johan, Delaney Michael, Diaz Aurélien, Doubnik Roza, Haaf Kevin, Hentschel Steve, Norris Barry, Voirin Erik
- A1 035 **NUMERICAL STUDY ON FLOW CONDENSATION IN SUBCOOLED OXYGEN BEND PIPES OF LIQUID ROCKET**
Zhu Kang, Ma Yuan, Li Cui, Li Yanzhong
- A1 036 **STUDY ON PROPAGATION OF TEMPERATURE DISTURBANCE IN INDIRECT-DRIVE INERTIAL CONFINEMENT CRYOGENIC TARGET SYSTEM**
Li Cui, Li YanZhong, Chen PengWei, Zhao Jun, Zheng Jiang
- A1 040 **THE GERSEMI VERTICAL CRYOSTAT AT FREIA**
Santiago Kern Rocío, Thermeau Jean-Pierre, Gajewski Konrad, Hermansson Lars, Eriksson Johan, Bujard Philippe, Junquera Tomás, Dieudegard Florian, Ruber Roger
- A1 049 **HIGH POROSITY OPEN-CELL METAL FOAM AS POTENTIAL CANDIDATE FOR SPACE CRYOGENIC RADIATOR**
Dixit Tisha, Ghosh Indranil
- A1 062 **DRASTIC INCREASE OF EFFICIENCY OF INDUCTION-DYNAMIC DEVICES BY USING CRYOGENIC COOLING: EXPERIMENTAL EVIDENCE**
Bolyukh V.F., Oleksenko S.V., Katkov I.I.
- A1 064 **INFLUENCE OF LASER EXCITATION ON INVERSE PROXIMITY EFFECT IN BIOI/NB NETEROSTRUCTURES**
Lotnyk Dmytro, Komanický Vladimír, Bunda Viktor, Feher Alexander
- A1 066 **MODIFIED CALIBRATION FREE METHOD FOR AC MAGNETIZATION LOSS MEASUREMENT**
Lubomír Frolek, Jozef Pitel, Juraj Tančár
- A1 068 **DESIGN AND DEVELOPMENT OF CRYOGENIC SYSTEM FOR CRYOGENIC UNDULATOR AT NSRRC**
Yu Yung-Teng, Huang Jui-Che, Yang Chin-Kang, Chang Cheng-Hsing, Jan Jyh-Chyuan, Chang Cheng-Hsiang, Hwang Ching-Shiang
- A1 070 **RESEARCH OF PARTIAL HYBRID COMPRESSION TECHNOLOGY APPLIED TO ULTRA-LOW TEMPERATURE REFRIGERATION AND AIR LIQUEFACTION**
Staicovici Mihail-Dan

- A1 077 DESIGN OF CRYOGENIC TEST FACILITY FOR TURBO-EXPANDER OF DIFFERENT CONFIGURATIONS FOR LIQUID HELIUM PLANT**
Patel Vishal, Sahu AnantaKumar, Dave Hareesh, Saikiran Paramkusam, Shah Bhagyashri, Prajapati Dhaval, Vyas Hardik, Thummar Pintu, Shah Ronak, Nema Priya, Mamgain Nitin
- A1 079 DESIGN OF EFFICIENT OIL COALESCER FOR HELIUM COMPRESSOR AND OIL REMOVAL SYSTEM**
Patel Vishal, Sahu AnantaKumar
- A1 095 DEVELOPMENT OF A CRYOCOOLER SET-UP DEDICATED TO THE CHARACTERIZATION OF HIGH SENSITIVITY SUPERCONDUCTING RADIOFREQUENCY COILS**
Michel Geahel, Laurène Jourdain, Georges Willoquet, Jean-Christophe Ginefri, Luc Darrasse, Cornelis Jacominus van der Beek, Javier Briatico, Marie Poirier-Quinot
- A1 102 EFFECT OF GOLD COATING ON EMISSIVITY AND ABSORPTIVITY OF TI-6AL-4V ALLOY**
Frolec Jiří, Králík Tomáš, Musilová Věra, Urban Pavel
- A1 105 EFFECT OF THERMAL RADIATION ON LOW TEMPERATURE MEASUREMENT FOR VARIOUS TYPES OF TEMPERATURE SENSOR INSTALLATIONS**
Pavel Urban, Pavel Hanzelka, Tomáš Králík, Ivan Vlček, Aleš Srnka
- A1 111 EFFECT OF TEMPERATURE VARIATION ON COLD ELECTRONICS BASED LC OSCILLATOR FOR RRR MEASUREMENT**
Karunanithi Rangasamy, Sagar Pankaj, Singh Gour Abhay

POSTERS A2

- A2 022 A HYDROSTATIC PRESSURIZATION TEST OF HIGH PRESSURE HELIUM GAS STORAGE VESSELS AT IPR**
Sharma Rajiv, Tanna Vipul, Patel J .C., Panchal Rohit, Nimavat Hiren, Srikanth GLN, Patel Ketan, Shah Pankil, Panchal Pradip, Christian Dikens, Sonara Dasarath, Garg Atul, Bairagi Nitin, Patel Rakesh, Mahesuria Gaurang, Purwar Gaurav, Pradhan Subrata
- A2 087 COMPARISON OF DIRECT EXPANSION AND COMBINED DIRECT EXPANSION AND ORGANIC RANKINE CYCLE FOR POWER GENERATION BY UTILIZING LNG COLD ENERGY**
Joy Jubil, Chowdhury Kanchan
- A2 097 STUDY AND OPTIMIZATION OF ENERGY CONSUMPTION IN AN LNG PLANT**
Ahmed Belgacem, Sarah Hamdi, Yahia Haniz
- A2 107 LAB-SCALE HELIUM LIQUEFIER**
Tobias Adler
- A2 116 BOIL-OFF PREVENTION AND THERMAL MODELLING OF LNG FUELLING STATIONS**
Kováčová Irina, Chrz Václav
- A2 117 THE PURITY OF LIQUID HELIUM REVISITED**
Gabal Miguel, Sesé Javier, Rillo Conrado, Spagna Stefano
- A2 118 METHODS OF ENHANCEMENT OF PORTABLE CRYOGENIC SYSTEMS UP TO THE RANGE OF 85K TEMPERATURE**
Mostytskyi Andrii, Baklan Oleg, Litvinenko Maxim
- A2 119 HEAT TRANSFER ANALYSIS OF PUMP SUMP FOR LNG**
Pavlenko Daria, Chrz Václav

POSTERS C1

- C1 002 USING LIQUID NITROGEN FOR CONIFER PLANT SEED CONSERVATION**
Arapetian Emma, Usatenko Yuriy, Scherbina Marina