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1EPA: - HTS Fabrication I (Exhibit Hall)

1EPA-01	81	**Evolution of electrical and electrodynamic properties of $YBa_2Cu_3O_{7-x}$ bicrystal Josephson junctions with oxygen loading**
1EPA-02	82	**Design of a HTS rf-SQUID based on biepitaxial Josephson Junction technology**
1EPA-03	83	**Step-edge Josephson junctions with multilayered high temperature superconducting thin film**
1EPA-05	85	**Annealing temperature effects on ybco/laalo$_3$ and ybco/ceo$_2$/al$_2$o$_3$ for microwave applications by tfa-mod**
1EPA-06	86	**Nanostructuring of YBCO Josephson Junctions by phase separation**
1EPA-07	87	**Transport properties of ybco nanowires**
1EPA-08	88	**Numerical Calculation Study on the Current Distribution of YBCO Nanobridges and its Application to the Control of the Characteristics of Asymmetric Bridges**
1EPA-09	89	**Ratchet effect of vortex motion in asymmetrical nanobridges with a magnetic field**

1EPB: - LTS Fabrication (Exhibit Hall)

1EPB-01	90	**Diffusion stop-layers for superconductor integrated circuits and qubits with Nb-based Josephson junctions**
1EPB-02	91	**Investigation of the role of H in fabrication-process-induced variations of Nb/Al/AlOx/Nb Josephson junctions**
1EPB-03	92	**Development of Nb-based non-hysteretic Josephson junction fabrication process using metal-silicide barrier**
1EPB-06	95	**The effect of magnetic nanoparticles on inductances toward SFQ device application**
1EPB-07	96	**Current noise investigations in Josephson devices by switching current measurements**
1EPB-08	97	**Measurement of epitaxial NbN/AlN/NbN tunnel junctions with a low critical current density at low temperature**
1EPB-09	98	**Fabrication of high-quality NbN/AlN/NbN tunnel junctions with a wide range of current density**

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1EPB-10	99	**Characterization of NbTiN thin films deposited on various substrates**

1EPC: - Microwave I (Exhibit Hall)

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1EPC-02	101	**Pico pulse propagation analysis of hts strip line using time-dependent Ginzburg-Landau equation**
1EPC-03	102	**Dc and microwave characterization of ybco weak links**
1EPC-04	103	**Relating the nonlinear surface impedance to the local nonlinear superfluid density in high temperature superconductors**
1EPC-05	104	**Analysis and design of negative resistance Josephson parametric amplifiers**
1EPC-06	105	**Development of twin slot dipole antenna integrated YBCO grain boundary Josephson junction detectors for 0.2 to 1 THz**

1EPD: - TES Bolometers II (Exhibit Hall)

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1EPD-02	109	**AlMn transition edge sensors for CMB polarimeters**
1EPD-03	110	**Characterization of Si_xN_y absorbers and thermal support beams for ultra-sensitive far-infrared (IR)/sub-mm transition edge sensors**
1EPD-05	112	**Thermal modeling of TES devices used in feedhorn coupled millimeter wave polarimeters**
1EPD-06	113	**Energy resolution of teraherz single-photon-sensitive bolometric detectors**

1LPA: - Bearings and Flywheels - Flywheel Systems (Exhibit Hall)

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1LPA-02	116	**New concept of flywheel energy storage system using SMB and PMB**

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1LPA-03	117	**The loss characteristics of SFES with amorphous core for PMSM**
1LPA-04	118	**Subharmonic resonance of a rotor supported by a high-tc superconductor**
1LPA-05	119	**Test results of a compact disk-type motor/generator unit with superconducting bearings for flywheel energy storage systems with ultra-low idling losses**
1LPA-06	120	**Design of hybrid suspension system of superconducting and electrostatic suspension**

1LPB: - Bearings and Flywheels - Levitation Related (Exhibit Hall)

1LPB-01	121	**Basic study on magnetically levitated conveyer system using field-cooling magnetization and pulse-field magnetization**
1LPB-02	122	**Simple semi-analytical approach to estimate the levitation force and penetration profile of axial flux superconducting bearings**
1LPB-03	123	**Lateral and levitation forces between a small magnet and superconducting sphere and the stability of the magnet**
1LPB-04	124	**Levitation properties of the superconducting magnetic bearings**
1LPB-05	125	**Application of 2G-Tape for passive and controlled superconducting levitation**
1LPB-06	126	**Analysis on the Levitation Characteristics of the Superconducting Ball**

1LPC: - Dielectrics: General (Exhibit Hall)

1LPC-01	127	**The electrical insulation characteristics of GFRP for Superconducting Devices**
1LPC-02	128	**Liquid nitrogen breakdown due to thermally generated bubbles in plane-plane electrode geometry**
1LPC-03	129	**Very low frequency (0.1 Hz) breakdown of various polymers immersed in liquid nitrogen**
1LPC-04	130	**Influence of bubble formation on the dielectric behaviour of liquid nitrogen**
1LPC-05	131	**Electrical breakdown of compressed Helium gas**

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1LPD-02	135	**Towards a FEM tool for flexible analysis of superconducting motors**
1LPD-03	136	**Analyses and control of a high temperature superconducting motor**
1LPD-04	137	**Design of the axial and radial flux HTS motor with superconducting armature winding**
1LPD-05	138	**Design and ac loss analysis of a fully superconducting 10hp homopolar motor with YBCO CC windings**
1LPD-07	140	**Electromagnetic design study of transverse flux enhanced type superconducting wind turbine generators**
1LPD-08	141	**A small-sized HTS homopolar synchronous rotating machine**
1LPD-09	142	**Load angle calculation of a superconducting synchronous motor**

1LPE: - Motors and Generators - Induction (Exhibit Hall)

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1LPE-02	144	**A linear doubly-salient hts machine for wave energy conversion**
1LPE-03	145	**Rotation tests of a superconducting induction/synchronous motor with MgB_2 wire in liquid and gaseous helium**
1LPE-04	146	**Fundamental characteristics of fully superconducting HTS induction-synchronous machine for electric vehicle**
1LPE-05	147	**A fast analytical method to compute the radial flux density distribution in the airgap of a superconducting inductor.**

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1LPE-07	149	**Analytic evaluation of hts induction motor for electric rolling stock**
1LPE-08	150	Design and Manufacturing of HTS coils for 30kVA synchronous electrical machine

1LPF: - Motors and Generators - Modeling and Losses (Exhibit Hall)

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1LPF-02	152	**Critical current and electric loss under magnetic field at 30 k on bi-2223 superconducting coil for ship propulsion motor**
1LPF-03	153	**Research on distribution of magnetic field around the superconducting coils in ferromagnetic environment**
1LPF-04	154	**Improved design to reduce eddy-current loss in retain-ring in superconducting machines**
1LPF-05	155	**Characteristic Comparison according to the Change of End-winding Shape in Field coil for Superconducting Machines**
1LPF-06	156	**Coil optimization for HTS machines**
1LPF-07	157	**Research and development of alternative concepts in hts machines**
1LPF-08	-null-	**Experimental characterization of a conventional (aluminum) and a superconducting (ybco) axial flux disc motor**

1LPG: - Motors and Generators -Tests (Exhibit Hall)

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1LPG-02	159	**Study of large scale wind turbine synchronous generators with hts field windings**
1LPG-03	160	**Design and model test of a high temperature superconducting generator for wind power applications**
1LPG-04	161	**Testing of a lightweight coreless HTS synchronous generator cooled by subcooled liquid nitrogen.**

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1LPG-05	162	**Further testing of an iron-cored HTS synchronous generator cooled by liquid air.**
1LPG-06	163	**Development of an HTS Rotor for a High-Speed Generator**

1LPH: - Other Power Gear (Exhibit Hall)

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1LPH-02	165	**Application of MgB_2 to a switch for extraction of stored magnetic energy**
1LPH-03	166	**Prototype of SC inverter**
1LPH-04	167	**Simulation of magnetically triggered mgb2 switches**
1LPH-05	168	**Development of a toroidal coil using ybco coated conductor for dc reactor**

1LPJ: - SFCL (Exhibit Hall)

1LPJ-01	169	**Protective cooperation between a superconducting fault current limiter and a reclosing system**
1LPJ-02	170	**Power burden of flux-coupling type superconducting fault current limiter in the three-phase power system**
1LPJ-03	171	**Condition based monitoring of superconducting fault current limiter using fuzzy support vector regression**
1LPJ-04	172	**Analytical design method and experimental test of 1kv/2ka class non-inductive high-tc superconducting fault current limiter**
1LPJ-06	174	**Temperature spatial distribution of high-tc coated conductor by numerical method when a fault current flows**
1LPJ-07	175	**Simulation of a transformer type HTS superconducting fault current limiter performance in an electrical power distribution feeder**

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1LPK-02	178	**Design and test results of a 0.9 MVA resistive type HTS fault current limiter**
1LPK-03	179	**Test of a modular fault current limiter for 220V line using YBCO coated conductor tapes with shunt protection**
1LPK-05	181	**Operating characteristics of oval-shaped resistive superconducting fault current limiter**
1LPK-06	182	**Novel design of the structure of a non-inductive superconducting coil**
1LPK-07	183	**Study on initial operating properties of resistive type sfcls using ybco thin-film wire with electrical coupling condition**
1LPL: - SFCL Design of Other Types (Exhibit Hall)		
1LPL-02	185	**Experimental investigation of an active superconducting surrent sontroller**
1LPL-03	186	**Fault current limitation by a transformer type FCL based on the second generation HTS wires**
1LPL-04	187	**recovery time and boiling heat characteristics of superconducting tapes suitable for SFCL applications**
1LPL-05	188	**Loss and transition studies of shunted free-stabilized YBCO tape for SFCL applications**
1LPL-06	189	**Multiple criteria decision making methods for optimization design and location of fault current limiters**
1LPM: - SFCL Wire/Tape for FCL (Exhibit Hall)		
1LPM-01	190	**Optimisation of 2G YBCO wires for resistive fault current limiter**
1LPM-02	191	**Recovery characteristic of coated conductors for superconducting fault current limiters**
1LPM-03	192	**Estimation of over-current performance in ybco superconducting thin films for fault current limiter**

Pres. Number	Poster Board #	Publishing Title
1LPM-05	194	**Impact of shunt resistors on simultaneous quenches in series-connected 2G YBCO coils of DC reactor type SFCL**
1LPM-07	196	**HTS tapes cooled by liquid nitrogen at current overloads**

1LPN: - SMES (Exhibit Hall)

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1LPN-02	199	**Test results of 30 kVA / 10 kJ SMES for voltage sag compensation**
1LPN-03	200	**the electromagnetic analysis and structure design of a 1 mj magnet for smes**
1LPN-04	201	**Unit coil development for Y-SMES**
1LPN-05	202	**Analysis of eddy current losses and magnetization losses in toroidal magnets for a 2.5 MJ HTS SMES**
1LPN-06	203	**Simultaneous optimization of SMES coil size and control parameters for robust power system stabilization**
1LPN-07	204	**Analysis of stress distribution in helical coils with geodesic windings based on virial theorem**
1LPN-08	205	**A dual mode control strategy of SMES for multifunctional application**

1MPA: - Coated Conductors: Buffers (Exhibit Hall)

1MPA-01	206	**The oxidation behaviour at the Ni-W and CeO2 interface with and without Pd over layer**
1MPA-02	207	**Deposition of self-epitaxial CeO_2 buffer layer on MgO substrates by PLD for coated conductor**
1MPA-03	208	**Preparation of CeO_2 buffer layer by electron beam evaporation deposition on LMO bufferd IBAD-MgO**
1MPA-04	209	**Fabrication of the thick CeO_2/$La_2Zr_2O_7$ (LZO) buffer layers through seed layer modification used for coated conductors**
1MPA-05	210	**Surface decoration of $BaTiO_3$ on $LaAlO_3$ substrate by chemical solution deposition**

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1MPA-06	211	**Advanced buffer layer architectures prepared by chemical solution deposition**
1MPA-07	212	**Optimization of the initial stage of magnesium oxide template film texture development using ion assist beam deposition for HTS coated conductors**
1MPA-08	213	**Study of (00l) tilting of IBAD MgO and development of IBAD and buffer processes on planarized substrates**

1MPB: - Coated Conductors: Buffers and Processing (Exhibit Hall)

1MPB-01	214	**Study of MgO-based buffer layer architecture for the development of alternative YBCO coated conductor**
1MPB-02	215	**Studies of multi-layer $Ce_{0.8}Gd_{0.2}O_{1.9}$ (CGO) thick films deposited on home-made textured NiW substrates by a simple metal-organic deposition technique**
1MPB-03	216	**Preparation of a novel $Ce_{1-x}La_xO_2$ /$Gd_2Zr_2O_7$ buffer layer stack on NiW alloy substrates by the MOD route**
1MPB-04	217	**MOCVD of YBCO and oxide buffer layers on textured Ni-tapes**
1MPB-05	218	**Ink-jet printing of fluorine-free water-based precursors for coated conductors**
1MPB-06	219	**Development of simplified buffer architectures based on IBAD-TiN for coated conductor applications**
1MPB-07	220	**Influence of buffer layer surface morphology on YBCO critical current density deposited on NiW tapes**
1MPB-08	221	**Development of all-CSD processes for coated conductors at Nexans: limitations and possible solutions**

1MPC: - Coated Conductors: Processing (Exhibit Hall)

1MPC-02	223	**Thickness dependence of the critical-current density and its relation to the near-interface crystal imperfection in fluorine-free-MOD YBCO films**
1MPC-04	225	**Development of ^{TFA}YBCO Coated Conductors on ^{ABAD}YSZ substrates**
1MPC-05	226	**Surface planarization of Hastelloy substrate by using Y_2O_3 solution deposition**
1MPC-06	227	**Deposition of YBCO thin film by Aerosol Assisted Spray Pyrolysis using low cost metal precursors**

Pres. Number	Poster Board #	Publishing Title
1MPC-07	228	**Chemical solutions and deposition systems for buffer layers and YBCO-TFA growth for coated conductor architectures**
1MPC-08	229	**Analysis of YBCO phase formation in thin films grown using a metal propionate coating solution**

1MPD: - Coated Conductors: Processing and Performance I (Exhibit Hall)

1MPD-01	230	**Development of the long YBCO coated conductor using TFA-MOD process**
1MPD-03	232	**SmBCO/IBAD-MgO coated conductors fabricated by co-evaporation and ex-situ conversion process**
1MPD-04	233	**Superconducting properties of coated conductors on textured highly alloyed Ni-W tapes**
1MPD-05	234	**Fabrication of Gd1Ba2Cu3Ox coated conductors for HTS cables**
1MPD-06	235	**Novel YBCO growth on carbon nanotube structures**
1MPD-07	236	**The development of double-sided coated conductor**
1MPD-08	237	**Possibility of Nd:YAG-PLD method for fabricating REBCO coated conductor**
1MPD-09	238	**Pushing coated conductor critical currents beyond 1 kA per cm width: stacks of YBCO layers**

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1MPE: - Coated Conductors: Processing and Performance II (Exhibit Hall)		
1MPE-01	239	**The magnetic properties of SmBCO coated conductor on IBAD-MgO template fabricated by EDDC**
1MPE-02	240	**Advanced Fast RCE Process for ReBCO coated conductor**
1MPE-03	241	**Coated conductors of $YBa_2Cu_3O_{7-\delta}$ (YBCO) using Pechini´s solution**
1MPE-04	242	**Ink-jet printing of water-based YBCO coatings and patterns**
1MPE-05	243	***Ex-situ* conversion of co-evaporated precursors for fabricating SmBCO coated conductors**
1MPE-06	244	**Vector magnetic field critical current characterization of HTS coated conductors deposited on solution deposition planarized IBAD**
1MPE-07	245	**Fabrication of round wire using coated conductor for power applications**
1MPE-08	246	**Fabrication and characterization of GdBCO coated conductor using CeO_2-buffered IBAD-MgO template**
1MPF: - Coated Conductors: Substrates and Buffers (Exhibit Hall)		
1MPF-01	247	**Novel substrate based on textured Cu {100}<001> for coated conductors**
1MPF-02	248	**Fabrication of the textured Ni-9.3at.%W alloy substrate used for coated conductors**
1MPF-03	249	**Fabrication a textured non-magnetic Ni-12at.%V alloy substrate for coated conductors**

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1MPF-04	250	**Preparation of smooth metal substrate by wet-chemical coating method**
1MPF-05	251	**LZO as a protective barrier against oxidation of NiW substrates**
1MPF-06	252	**Study of CSD buffer layers and their buffer capacity in coated conductors**
1MPF-07	253	**Solution derived Sm_2O_3 buffer layers on biaxially textured Ni-W substrates for YBCO coated conductor**
1MPF-08	254	**Reel-to-Reel copper electroplating on PLD coated conductor**

1MPG: - LTS Thin Films and Multilayers (Exhibit Hall)

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1MPG-02	256	**Amorphous and crystalline magnetic/superconducting hybrids: Interplay between periodic defects and random defects**
1MPG-04	258	**Advancements in epitaxial trilayer growth utilizing Nb/Re bilayers on sapphire**
1MPG-05	259	**Giant conductance anisotropy in magnetically coupled F/S/F structures**

2LP1A: - Accelerator Magnets - Other I (Regency)

2LP1A-01	1	**Magnetic field shimming and the field measurement issue on the 130-pole superconducting undulator**
2LP1A-03	3	**Feasibility of short-period superconducting undulators using 2G YBCO HTS tapes***
2LP1A-04	4	**Design of Nb3Sn-based short period model helical undulator**
2LP1A-05	5	**A design concept for a planar superconducting undulator for the APS**

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2LP1B: - Accelerator Magnets - Other II (Regency)

2LP1B-01	6	**Design of a superconducting magnet system for the AEGIS Experiment at CERN**
2LP1B-02	7	**Conceptual design of a superconducting solenoid system for the Super Omega Muon beam line at J-PARC**
2LP1B-03	8	**Superconducting solenoid magnets for the comet experiment**
2LP1B-04	9	**Quench protection of curved solenoids for high intensity muon beamline**
2LP1B-05	10	**Model superconducting helical cooling channel solenoids**
2LP1B-06	11	**Progress on fabrication of a MuCool coupling magnet**
2LP1B-07	12	**The resistance and strength of soft solder splices between conductors for MICE superconducting coils**

2LP1C: - SRF Cavities - Large Scale (Regency)

2LP1C-01	14	**The cavities for superconducting CW linac of Project X**
2LP1C-02	15	**Cavity performance and surface characterization using replica technique**
2LP1C-03	16	**The RF performance of cavities made from defective niobium material determined by Eddy Current Scanning**
2LP1C-04	17	**Ultra-gradient test cavity for testing SRF wafer samples**
2LP1C-05	18	**Calculations with fluent for the cryogenic radiation loss of a superconducting RF module**
2LP1C-07	20	**Residual resistance data from cavity production projects at Jefferson Lab**

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2MP1A: - Measurements I: HTS Critical Currents (Regency)

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2MP1A-02	24	**Critical current densities of MOCVD tapes for different current directions**
2MP1A-03	25	**Comparison of current limiting defects in $YBa_2Cu_3O_{7-x}$ and $Ba(Fe_{1-x}Co_x)As_2$ films and bulk $Bi_2Sr_2Ca_1Cu_2O_8$ filaments**
2MP1A-04	26	**Investigation on the in-situ high temperature resistance measurement of mono-filament Bi-2223/Ag tapes at various oxygen partial pressures**
2MP1A-05	27	**Thickness dependence of critical currents of $Sm_{1+x}Ba_xCu_3O_y$ coated conductors investigated by polarized-Raman scattering spectroscopy**
2MP1A-06	28	**Josephson effect and Andreev reflection studies on 122 iron pnictide single crystals**
2MP1A-07	29	**Performances of trapped magnetic field in superconducting bulk magnets activated by pulsed field magnetization**

2MP1B: - Measurements II: General (Regency)

2MP1B-01	30	**Detection of fine peculiarities of the heat capacity of YBaCuO thin films by imaging of their S/N phase transition by a highly sensitive SFCO-technique, using a well focused laser beam as a probe**
2MP1B-02	31	**Precursor to Superconductivity Fine Effects: their crucial role for true understanding of the nature of superconductivity**
2MP1B-04	33	**Numerical investigation on applicability of inductive method/permanent magnet method to j_c-measurement in HTS thin film**
2MP1B-05	34	**High-performance simulation of shielding current density in HTS by constitutive-relation relaxation method**
2MP1B-07	36	**Strength of the phonon-coupling mode in La2-xSrxCuO4, Bi2Sr2CaCu2O8+x and YBa2Cu3O6+x: An estimation from the ARPES-nodal measurements.**
2MP1B-08	37	**Mapping of the transversal resistivity matrix measured on NbTi and Nb_3Sn superconducting strands**
2MP1B-10	39	**Sample length effect on magnetization measurements of state of the art Nb3Sn wires**

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2MP1C: - Measurements III: Coated Conductors (Regency)		
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2MP1C-02	41	**Experimental characterization of the electrical resistance of coated conductors at high current densities and variable temperature**
2MP1C-03	42	**Non-destructive testing of each layer in GdBCO IBAD-PLD coated conductor by using a high-speed scanning laser observation system**
2MP1C-04	43	**Detection of critical current density distribution of YBCO coated conductors by permanent magnet method**
2MP1C-05	44	**Screening of axial DC magnetic fields by using superconducting loops of second generation coated conductors without joints**
2MP1C-06	45	**Current and field distribution in meandered coated conductors for Roebel cables**
2MP1C-07	46	**Angular dependence of the critical current in coated conductors: comparison of transport and magnetisation measurements**
2MP1C-08	47	**Spatial homogeneity in 600 A/cm-w class $GdBa_2Cu_3O_{7-\delta}$ coated conductor obtained by PLD process**
2MP1C-10	49	**Electrical and magnetic characterization of BSCCO and YBCO HTS tapes for fault current limiter application**
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2MP1D-03	52	**Processing advances suggested by results of single-cell superconducting RF cavity research at Fermilab**
2MP1D-04	53	**Characterization of field penetration in superconducting multi-layers samples**
2MP1D-05	54	**Migration of quench location in SRF cavity**
2MP1D-07	56	**Effects of material properties on the elastoplastic buckling of an SRF cavity under external pressure**
2MP1D-08	57	**Search for superconductivity in nanostructures: doped carbon nanotubes, mgb2 based nanostructures and fulleride nanocomposites for lightweight wires**

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2MP1E-02	62	**Development of Ta-matrix Nb_3Al strand and cable for high-field accelerator magnet application**
2MP1E-03	63	**The jelly rolled Nb/Al composite precursor with tantalum inter-filament matrix**
2MP1E-04	64	**Superconducting properties and microstructure of V_3Ga wires using high Ga content $TiGa_3$ and V_2Ga_5 compounds**
2MP1E-05	65	**V_3Ga multifilament strand by the pit approach**
2MP1E-06	66	**Modeling of Nb_3Sn conductor dimension changes during heat treatment**

2MP1F: - Nb3Sn Properties (Ambassador)

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2MP1F-02	68	**Results of investigations of 500 kg Nb_3Sn bronze strand produced in Russian Federation for ITER project**
2MP1F-03	69	**The effect of twist pitch on hysteresis loss and *ic* of nb_3sn strands for iter**
2MP1F-04	70	**Nb_3Sn wire quality assurance tests for the series-connected hybrid magnets**
2MP1F-05	71	**Critical current density and microstructure of the hybrid bronze processed Nb_3Sn conductor**
2MP1F-06	72	**Heat treatment influence on the microstructure and performance of internal-tin route nb3sn superconducting strand**
2MP1F-07	73	**Development of Nb_3Sn internal tin strands with enhanced current capacity and improved mechanical properties**
2MP1F-08	74	**Observations on titanium diffusion in ITT type Nb_3Sn superconductors**
2MP1F-09	75	**Texture influences on Nb filament deformation performance**

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2MP1F-10	76	**Development of metallographic procedures for imaging cable-in-conduit conductors**

2MP1G: - Nb-Ti (Ambassador)

2MP1G-01	77	**The performance optimization of NbTi superconducting composite wire for ITER project**
2MP1G-02	78	**Testing and Analysis of the Critical current and Magnetization for NbTi strand**
2MP1G-03	79	**Direct measurement of interfilament resistance in superconducting multifilamentary NbTi and Nb_3Sn strands**

2LP2A: - CICC I (Regency)

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2LP2A-03	3	**Comparison of a contact mechanics model with experimental results to optimize the prediction of transverse load effects of large superconducting Cable-In-Conduit-Conductor**
2LP2A-04	4	**Neutron diffraction study of thermal residual strain in Nb_3Sn conductors**
2LP2A-05	5	**Role of the cross-section geometry in rectangular Nb3Sn CICC performances**
2LP2A-07	7	**Virtual testing of Nb3Sn strands for CIC conductors**

2LP2B: - Fusion III (Regency)

2LP2B-01	8	**Test results of two ITER poloidal field conductor samples in SULTAN**
2LP2B-02	9	**From Design to Development phase of the ITER Correction Coils**
2LP2B-03	10	**Transient thermal and flow-dynamic analysis of ITER magnet system on basis of Vincenta numerical code**
2LP2B-05	12	**Numerical simulation of current distribution in cable-in-conduit conductor for ITER TF coil**
2LP2B-06	13	**Evaluation of Effective Strain and *n*-value of ITER TF conductor samples**
2LP2B-08	15	**Winding shop of the PF1 coil double pancakes**
2LP2B-09	16	**Effect of mass flow rate unbalance on the interpretation of T_{CS} measurements of ITER TF short samples**
2LP2B-10	17	**Test result of a full-size Nb3Sn conductor developed for the ITER TF coils**
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2LP2C-05	23	**Review and Experimental Verification on the Design of the Stability and Protection of the KSTAR TF Magnet**
2LP2C-06	24	**Hydraulic behavior of rectangular cable-in-conduit conductor for KSTAR superconducting magnet system**
2LP2C-07	25	**Analysis of Reversal Flow Phenomenon of Supercritical Helium due to AC loss in the KSTAR PF coil at Low Current**
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2MP2A-05	30	**Using n-value analysis for determination of position-dependent property variability in long-length coated conductors**
2MP2A-06	31	**Quantification of pinning enhancements in production coated conductors fabricated by MOCVD / IBAD**
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2MP2A-08	33	**Experimental Analysis of Unequal Voltage Distribution on a Single YBCO Coated Conductor Affected by Inhomogeneous Critical Currents in Liquid Nitrogen and Sub-cooled Liquid Nitrogen**
2MP2A-09	-null-	**Electromechanical property investigation of striated REBCO CC tapes in pure torsion model**
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2MP2C-05	46	**Over current characteristics in YBCO coated conductors**
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2MP2E-04	72	**Estimations of critical current densities and super-current path in iron-based pnictide superconductors**
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3LP1A-03	3	**Active protection of an MgB_2 test coil**
3LP1A-04	4	**Quench propagation in magnesium diboride Double-Helix magnets**
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3MP1B-05	23	**TE and TM -polarized nonlinear guided waves in coplanar superlattice transmission lines**
3MP1B-06	24	**Stimulation of superconductivity in submolecular structures with weakly coupled superconducting layers**
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3MP1C-02	27	**Investigation of pure and BaHfO3-doped (RE)BCO thin films deposited by TFA-MOD**
3MP1C-03	28	**Superconducting properties of cation composition controlled MOD-Y123 thin films**
3MP1C-05	30	**Flux pinning properties in YBCO thin films with self-aligned magnetic nanoparticle inclusions**
3MP1C-06	31	**Optimal BZO doping and transport properties in YBCO thin films deposited from nanostructured targets on buffered metal substrates**

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3MP1C-08	33	**Understanding nanostructures in YBCO thin films for practical property enhancements**
3MP1C-09	34	**Correlation between flux pinning property and interfacial defects in $YBa_2Cu_{37-\delta}$/ CeO_2 multilayer thin films**
3MP1C-10	35	**Effect of impurities on the growth of cuprate films**

3MP1D: - Synthesis ReBCO Films (Regency)

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3MP1D-03	38	**Optimization of the BaCeO3 concentration in YBCO films prepared by pulsed laser deposition**
3MP1D-04	39	**Preparation of Ti doped YBCO thin films for microwave applications using TFA-MOD**
3MP1D-05	40	**Fabrication of YBCO films on the $LaAlO_3$ (001) substrates by the fluorine-free MOD process**
3MP1D-06	41	**MOMBE growth of $YBa_2Cu_3O_7$ thin films with c-axis, a-axis and 103 orientations on $SrTiO_3$ substrate**
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3MP1D-08	43	**Thickness dependence of structural and electrical properties of electron-doped $Sr_{1-x}La_xCuO_2$ infinite-layer thin films grown by pulsed laser deposition**
3MP1D-09	44	**Preparation and critical current measurements of infrared pulsed laser deposited y doped bscco superconducting films**
3MP1D-10	45	**Synthesis of fluorine-free YBCO thin films: Elucidation of the mechanism and influence of processing parameters on epitaxy**

3MP1E: - Bi-2212 and Bi-2223 Wires and Tapes III (Ambassador)

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3MP1E-03	63	**Transport and Magnetic, and SEM Characterization of a New kind of Bi-2212 Strand Design**

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3MP1E-06	66	**Compatibility of Bi-2212 with selected silver alloys**
3MP1E-07	67	**Influence of co-introduction of silver and zirconia as artificial pinning centers on the critical current densities of Bi2212**
3MP1E-08	68	**Study of Effects of Deformation in BSCCO-2212 Wires**
3MP1E-09	69	**Losses in a BSCCO tape when a plateau-less current impulse is fed into it**
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3MP1F-04	74	**The Construction Progress of a High-Tc Superconducting Power Substation in China**
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3MP1F-08	78	**Interpretation of the mechanical behavior of Bi2Sr2CaCu2Ox/AgMg round wires using fractal characterization of the rough surfaces of individual filaments**
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3LP2A-03	3	**Test arrangement for the W7-X HTS-current lead prototype testing**
3LP2A-04	4	**Test results of the high temperature superconductor prototype current leads for wendelstein 7-X**
3LP2A-05	5	**A study on the stacking methods of high Tc superconducting tape with respect to the shape of the copper terminal for applications of large current**
3LP2A-06	6	**Performance verification test for optimal leads and hitc leads**
3LP2A-07	7	**Current lead design for the Accelerator Project for Upgrade of LHC**
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3LP2A-10	10	**Heat exchanger design for the 30kA gas cooled current leads in the ENEA 12T CICC facility**
3LP2A-11	11	**4 kA Binary leads with REBCO coated conductor**
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3LP2B-04	15	**Electro-thermal simulation and stability of trapped field in multi-layer YBCO Plates**
3LP2B-05	16	**Performances of HTS coils in high magnetic fields and variable temperatures**
3LP2B-06	-null-	**Development of $YBa_2Cu_3O_{7-\delta}$ coated conductor coil technology for HEP high field magnets**
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3LP2C-03	19	**Evaluation of pulsed-field magnetization on a superconducting bulk magnet system using a 13 K refrigerator**
3LP2C-04	20	**Design of a HTS magnet for the study of resonant X-ray scattering**
3LP2C-05	21	**Experimental test and numerical analysis to estimate for permissible transport current considering protection of high-Tc superconducting tapes in adiabatic condition**
3LP2C-06	22	**SMES design using HTS ribbons**

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3MP2A-02	24	**Effects of Neutron Irradiation on an Isolated Grain Boundary in MOD coated conductors**
3MP2A-04	26	**Observation of periodic resistance peaks in $Bi_2Sr_2CaCu_2O_{8+d}$ (Bi-2212) Stacks**
3MP2A-05	27	**The magnetic properties of SiC-MgB_2 composite superconductor**
3MP2A-06	28	**Magnetic shielding properties of MgB2 bulk samples of different geometries**
3MP2A-07	29	**Effects of sintering temperature on superconducting properties of Mg_2Si doped MgB_2 wires**
3MP2A-08	30	**Optimization of heat treatment profiles applied to nanometric-scale Nb_3Sn wires with Cu-Sn artificial pinning centers**
3MP2A-09	31	**Investigation of the strain effects on the superconducting properties of NbTi wires in hydrostatic pressures up to 1 GPa**
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3MP2B-02	34	**Neutron irradiation effects of high temperature superconductors**
3MP2B-03	35	**Enhancement of intragrain critical current density in Bi-based superconductor by self-assembled two-dimensional nanoplane defects**
3MP2B-04	36	**Enhanced flux pinning in YBCO thin films using Nb-based double perovskite**
3MP2B-05	37	**In-field current transport properties of 600A-class $GdBa_2Cu_3O_{7-\delta}$ coated conductor utilizing IBAD-MgO template**
3MP2B-07	39	**Field angle dependence of critical current density in YGdBCO coated conductors**

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3MP2B-08	40	**Low-temperature pinning behaviour of MOD YBCO coated conductors**
3MP2B-09	41	**Effect of oxygen depletion on the pinning strength of $YBa_2Cu_3O_x$ thin films with nano-inclusions**

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3MP2C-02	43	**Comparison on effects of B_4C, Al_2O_3 and SiC doping on the performance of MgB_2 conductors**
3MP2C-03	44	**Chemical stability of ex situ MgB2 powder in tube conductors**
3MP2C-04	45	**Improved critical current densities in ex-situ processed MgB_2 tapes sheathed with various metals using powders treated in organic acid solutions**
3MP2C-05	46	**Microstructure in high-density MgB_2 wires prepared by an internal Mg diffusion method**
3MP2C-06	47	**Pinning and connectivity MgB2 thin films and PIT strands**
3MP2C-07	48	**Effect of grain size on the properties of MgB_2 wires doped with carbon**
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3MP2C-09	50	**Effects of the size of the doped sic nanoparticles on the critical current density of the ti-sheathed mgb_2 superconducting wires**

3MP2D: - MgB2 Wires III (Regency)

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3MP2D-02	52	**Comparative study of MgB_2 wires made from different boron powders**
3MP2D-03	53	**Study of the MgB_2 grain size role in ex-situ multifilamentary wires with thin filaments**
3MP2D-04	54	**Comparison of MgB2 wires production technologies and influence of different production conditions**

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3MP2D-06	56	**Applications of pressure and temperature treatment to increase critical current of the MgB2 wires and tapes at high magnetic fields**
3MP2D-07	57	**Enhancement of the critical current density in MgB2 superconductors fabricated by cubic anvil hot pressing**
3MP2D-08	58	**Effect of the powder strain state on the mechanical properties of MgB_2 tapes**

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3MP2E-03	63	**Microstructure and mechanical characteristic of industrial tin bronze for Nb3Sn superconducting wires**
3MP2E-04	64	**Elastic strain and critical current degradation under transverse compression in different Nb_3Sn strand types**
3MP2E-05	65	**Three-dimensional strain model for various kinds of Nb3Sn wires**
3MP2E-08	68	**Fundamental evaluations of transverse load effects of Nb3Sn strands using finite element analysis.**

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3MP2F-04	73	**Study on nano-mechanical properties of heat-treated YBCO coated conductors (CCs) using nano-indentation technique**
3MP2F-05	74	**Tensile tests of Bi-2212 Ag alloy clad round high Tc superconducting wires**

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3MP2G-04	78	**Design and testing of candidate iter tf coil insulations**
3MP2G-05	79	**Effect of soldering defects on strength of HTS lap joints**
3MP2G-06	80	**Measurement of 77k stress-strain response of epoxy-impregnated HTS stacks**

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3EP3A-04	84	**Nonlinear phenomena in superconducting YBaCuO microwave resonators**
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3EP3B-05	93	**Analysis of superconducting analog-to-digital converters for improved resolution and large dynamic range**
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3EP3G-05	131	**Advances in cryopackaging of superconductor digital systems**

Pres. Number	Poster Board #	Publishing Title
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3EP3H: - TES Calorimeters and TES Instruments (Exhibit Hall)

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3LP3A-09	166	**Evaluation of hysteresis loss of a QMG coil magnet for pulsed current**
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3LP3B-08	176	**The cryogenics of a thermosiphon-cooled HTS MRI Magnet - experimental results and performance limits**
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3LP3G-03	213	**Assessment of the impact of SFCL on Voltage Sags in Power Distribution System**
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3LP3G-06	216	**A technical feasibility study on hts cable and sfcl field demonstration in south korea**
3LP3G-07	217	**Analysis on protection coordination of hybrid SFCL with protective devices in a power distribution system**
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3LP3H-03	221	**Protective relay tests of hybrid SFCLs in a Korean distribution power system using RTDS**
3LP3H-04	222	**Evaluation of the impact of Superconducting Fault Current Limiters on Power System Network Protections using a RTS-PHIL methodology**
3LP3H-05	223	**Impacts of superconducting fault current limiters on the recloser operation in distribution electric power systems**
3LP3H-06	224	**Proof-of-concept of a smart fault current controller with a superconducting coil for the smart grid**
3LP3H-07	225	**Cooperation between superconducting fault current limiter and reclosing system**
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3LP3J-03	229	**Cold mass analysis for the series-connected hybrid magnet for Helmholtz Zentrum Berlin for Materials and Energy**
3LP3J-04	230	**Very high field HTS magnet studies**
3LP3J-05	231	**Status of the JLAB Hall B 12 GeV upgrade**
3LP3J-06	232	**Development of a 5T-Magnetometer for Synchrotron Radiation Experiments**
3LP3J-07	233	**Preliminary design of jlab clas12 large superconducting six coil torus magnets**
3LP3J-08	234	**Cryostat design for the nhmfl series-connected hybrids**
3LP3J-09	235	**25 Tesla HTS magnet insert coil in zero boil off cryostat**

3MP3A: - Flux-Pinning Improvement in HTS Wires and Tapes I (Exhibit Hall)

3MP3A-01	236	**Minute doping of $Y_{1-x}RE_xBa_2Cu_3O_{7-\delta}$ thin films with RE = Tb and Nd**
3MP3A-02	237	**Transport characterization of $GdBa_2Cu_3O_{7-\delta}$ coated conductors deposited by the in-plume PLD reel-to-reel technique**
3MP3A-04	239	**In-field properties of SmBCO coated conductor on IBAD_MgO metal substrates by batch-type reactive co-evaporation**

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3MP3A-05	240	**Fabrication and Characterization of filamentary (Nd,Sm,Gd)-Ba-Cu-O superconductor doped with Cobalt and Nickel**
3MP3A-06	241	**Critical current properties in magnetic field of filamentary Sm-Ba-Cu-O with metal additions**
3MP3A-07	242	**Magnetic pinning in YBCO**
3MP3A-08	243	**Vortex patterns in a mesoscopic superconducting rod with a magnetic dot**
3MP3A-09	244	**Characterization of commercial YBCO coated conductors after fast neutron irradiation**
3MP3A-10	245	**Dynamic growth effects of rare earth nanoparticles on nanorod formation in $YBa_2C_3O_x$ thin Films**
3MP3A-11	246	**Effects of nanoscale defects on critical current density of y1-x euxba2cu3o7-x thin films**
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3MP3B-03	249	**Vortex glass state in superconductors containing fractal clusters of a normal phase**
3MP3B-04	250	**Critical current measurement of HTS YBaCuO ribbons**
3MP3B-05	251	**Numerical investigations on edge effects of shielding current density in hts thick film**
3MP3B-06	252	**The ic behavior of 2g ybco tapes under dc magnetic field at various temperatures**

Pres. Number	Poster Board #	Publishing Title
3MP3B-07	253	**Electrical characteristics of stacks of YBCO Tapes in applied magnetic field**
3MP3B-08	254	**Analysis of local current distribution in patterned YBCO coated conductors using Low-temperature Scanning Laser Microscopy**
3MP3B-09	255	**Study of the irreversibility line and critical current of biscco thin films with different superconducting phases**

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4EPA-02	82	**Implementation of josephson-cmos hybrid memories with bit-serial data input/output ports**
4EPA-03	83	**Integration of optical waveguides with SFQ circuits**
4EPA-04	84	**Demonstration of 30 Gbit/s generation of superconductive true random number generator**
4EPA-05	85	**Investigaion of characteristic variations of high-speed cryo cmos amplifiers for interface circuits of the josephson/cmos hybrid memories.**
4EPA-06	86	**Design and experimental study of an RSFQ wave-pipelined 8-bit ALU and Kogge-Stone adder**
4EPA-07	87	**The multiplier of large scale integration SFQ circuits based on the Booth Encoder**

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4EPB-01	88	**Development of superconducting NbTiN waveguides for the terahertz SIS mixers**
4EPB-02	89	**Design and estimation of superconducting band-pass filters using HTS bulk resonators**
4EPB-03	90	**Mechanisms limiting the performance of MgB2 thin-film microwave resonators**
4EPB-04	91	**Time domain characterization of discrete josephson junction transmission line**
4EPB-05	92	**Design of Superconducting Transmit Filters using stripline structure**

Pres. Number	Poster Board #	Publishing Title
4EPB-06	93	**SIS junction using as a microwave noise source**
4EPB-07	94	**Microwave phase and amplitude modulator for microwave pulse generation**

4EPC: - Mixers (Exhibit Hall)

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4EPC-02	97	**NbTiN hot electron bolometer waveguide mixers on Si_3N_4 membranes at THz frequencies**
4EPC-03	98	**A study of the stability of the quasi-optical superconducting NbTiN hot-electron bolometer mixer at 1.5 thz frequency band**
4EPC-04	99	**Direct measurement of the gain and noise bandwidths of HEB mixers**
4EPC-05	100	**Sensor application of a series array of mesoscopic sns junctions as a fermion oscillator system**
4EPC-06	101	**Design and performance of 660 GHz SIS Mixers for the Submillimeter Array telescope**
4EPC-07	102	**Development of Superconductor-Insulator- Superconductor (SIS) Terahertz Receiver with a Mechanical and Thermal Vibration-Reduced Cryocooler**
4EPC-08	103	**Testing and analysis of bicrystal Josephson junction mixer's conversion efficiency at THz**
4EPC-09	104	**Sis mixer developments for sma**
4EPC-10	105	**Characterization of sis receivers using a digital spectrometer**
4EPC-11	106	**Noise and bandwidth performance of twin vertically stacked sis junctions**
4EPC-12	107	**Stability of superconducting hot electron bolometer receivers**
4EPC-13	108	**Multiband terahertz detection using a superconducting hot-electron bolometer detector and a triband mesh filter**

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4EPD-03	111	**THz direct detector based on Si with superconducting contacts.**
4EPD-04	112	**YBCO-film based Terahertz detectors in not dissipative regime: control of the THz response by Heavy Ions nanostructure implantation**
4EPD-05	113	**Optical characterization of the quantum capacitance detector**
4EPD-07	115	**Single photon receiver based on abrikosov vortices**
4EPD-08	116	**Photoresponse characterization of ybco thin films**
4EPD-09	117	**Numerical analysis of superconducting optical plasmonic waveguides**
4EPD-10	118	**High count-rate near-IR single photon detection with a niobium nanobolometer**
4EPD-11	119	**Investigation and optimization of LEKID structures and multi-pixel arrays at 4.2 K**
4EPD-12	120	**Subgap tunneling current at low temperature in Nb/Al-AlN/Nb SIS junctions**
4EPE: - Quantum Computing III (Exhibit Hall)		
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4EPE-02	122	**Identifying sources of decoherence in a dc squid phase qubit with a sub-micron josephson junction and interdigitated capacitor**
4EPE-03	123	**Transmon qubit with a lumped-element resonant readout**
4EPE-04	124	**Architecture and operation of a superconductor adiabatic optimization processor**
4EPE-05	125	**Digital quantum gates**
4EPE-06	126	**Robust and scalable flux qubits and couplers**

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4EPE-07	127	**Effect of spin-flip pulse sequences on dephasing in a flux biased phase qubit**
4EPE-08	128	**Quantum computing with quantum knots in 1024 quantum random number generator on magnetic flux qubits**

4EPF: - SNSPD: Characterization and Analysis (Exhibit Hall)

4EPF-01	129	**Thermal reset and kinetic inductance in superconducting nanowire single-photon detectors**
4EPF-02	130	**A novel bias scheme and read out electronics for superconducting nanowires single photon detector**
4EPF-03	131	**Swifts waveguide micro-spectrometer integrated on top of a 1d-nbn sspd array**
4EPF-04	132	**Superconducting nanowire single photon detector developed for practical QKD applications**
4EPF-05	133	**High spatial resolution distributed fiber sensor thermometer using raman scattering in single-mode fiber**
4EPF-06	134	**Multichannel SNSPD system with 21% system detection efficiency at 1550nm wavelength**

4EPG: - SNSPD: Fabrication and Packaging (Exhibit Hall)

4EPG-01	135	**Compact fiber-coupled packaging technique for SNSPDs with optical cavity structure**
4EPG-02	136	**Development of a versatile experimental setup for superconducting nanowire single photon detectors**
4EPG-03	137	**Performances of fiber-coupled superconducting nanowire single-photon detectors measured at ultralow temperature**
4EPG-04	138	**Superconductor/ferromagnet proximized nanostructures for optical photon detection applications**

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4EPG-05	139	**Two new growth methods for superconducting niobium nitride thin films for photodetection**
4EPG-06	140	**Niobium nitride film growth for next generation superconducting single photon detectors**

4EPH: - TES Multiple Topics (Exhibit Hall)

4EPH-01	142	**Study of interdiffusion of Ir and (Au, Al) into Si/SiN substrates**
4EPH-02	143	**The role of substrate properties in electron-phonon coupling in normal metals below 1 K**
4EPH-03	144	**An investigation of the longitudinal proximity effect in superconducting and normal metal TES**
4EPH-04	145	**Investigation of the lateral proximity effect in a Transition-Edge Hot-Electron Micro-Bolometer**
4EPH-05	146	**Magnesium as a light-weight alternative to copper for manufacturing refrigerators**
4EPH-06	147	**Development of alpha spectrometers using magnetic microcalorimeters**
4EPH-07	148	**Performance estimation for thin-film magnetic microcalorimeters with in-plane magnetization**
4EPH-08	149	**Flux-coupled direct feedback in a SQUID amplifier**

4LPA: - Maglev: Dynamic Properties, Vibration (Exhibit Hall)

4LPA-01	149	**Dynamic properties of magnetic levitation system using high-temperature superconductors**
4LPA-02	150	**The dynamic characteristics of the hts bulk superconducting actuator driven with ac electromagnets**
4LPA-03	151	**Operating characteristic analysis of electromagnetic suspension system considering the variation of the magnetic field distribution due to the vibration**
4LPA-04	152	**Effect of an additional mass on nonlinear resonance of a beam levitated over high-tc superconducting bulks**
4LPA-05	153	**Influence of a pitching angle on the levitation and guidance performance of the HTS Maglev system**

Pres. Number	Poster Board #	Publishing Title
4LPA-06	154	**Study of the lateral force behavior in a field cooled superconducting linear bearing**
4LPA-07	155	**Vibration reduction of a high-tc superconducting magnetic levitation system with an autoparametric vibration absorber**
4LPA-08	156	**Dynamics with magnetic interaction of two coaxial superconducting rings**
4LPA-09	157	**Increased levitation property of two-set model in magnetic levitation system using magnetic shielding effect of hts bulk**
4LPA-10	158	**Suspension force transition of high-Tc superconducting bulks in a varying external magnetic field**

4LPB: - Magnet Separation (Exhibit Hall)

4LPB-01	159	**Removal of hg from human serum with nano-size magnetic beads by artificial dialyzer with superconducting magnetic separator**
4LPB-03	161	**Study on high gradient magnetic separation for selective removal of impurity from highly viscous fluid**
4LPB-04	162	**High gradient superconducting magnetic separation for iron removal from the glass polishing waste**
4LPB-05	163	**High gradient magnetic separation of pneumatic conveyed powder products**
4LPB-06	164	**Development of numerical analysis method for ion separation with novel magnetic chromatography**
4LPB-08	166	**Magnetic separation of paper pulp wastewater**

4LPC: - Motors and Generators - Design (Exhibit Hall)

4LPC-01	167	**Stator Design for a 1000kw HTSC Motor with Air-gap Winding**
4LPC-02	168	**Design of the Field Coil for a 5 MW HTS Synchronous Motor**
4LPC-03	169	**Design studies on a 1000kw high temperature super-conducting motor**

4LPD: - Motors and Generators, Bulk and PM (Exhibit Hall)

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4LPD-01	171	**A tubular linear magnetic gear using HTS bulks for field modulation**
4LPD-02	172	**Design and analysis of a HTS permanent-magnet hybrid brushless machine**
4LPD-03	173	**Design and analysis of a superconductor linear generator for wave energy converter**
4LPD-04	174	**Experimental magnetization and operation of a high-Tc superconducting motor**
4LPD-05	175	**A novel hts-pm vernier motor for direct-drive propulsion**
4LPD-06	176	**Pulse field magnetization properties of bulk RE-Ba-Cu-O as pole-field magnets for HTS rotating machines**
4LPD-07	177	**Influence of AC magnetic field on an HTS rotating machine with Gd-bulk HTS field-pole magnets**
4LPD-08	178	**Torque density comparison of double-stator and traditional permanent magnet brushless motors**

4LPE: - Maglev: System Studies (Exhibit Hall)

4LPE-01	179	**Research of maglev project for HTS Maglev Luanch**
4LPE-02	180	**Recent developments of high temperature superconducting maglev at the ASCLab**
4LPE-03	181	**Magnetic potential well as a new magnetic levitation phenomenon**
4LPE-04	182	**A driven mode research of a HTS maglev parallel coil gun**
4LPE-06	184	**Trial manufacture of small HTS magnet using 2G wires for maglev train application**
4LPE-07	185	**Design and analysis of a superconducting linear synchronous motor for maglev transportation system**
4LPE-09	187	**Conceptual Design of HTS coil in Superconducting Electromagnet for Maglev**

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4LPF: - Other Novel Applications I (Exhibit Hall)

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4LPF-02	189	**High temperature superconducting degaussing from feasibility study to fleet adoption**
4LPF-03	190	**Suitable structure of pm-pm system with a copper plate for reducing vibration transmission and improving damping effect in a superconducting seismic isolation device**
4LPF-04	191	**Conduction-cooled superconducting magnet with persistent current switch operation**
4LPF-05	192	**Development and test of model apparatus utilizing HTS magnetic levitation for non-contact spinning clean-up processors of photo mask production**
4LPF-06	193	**Design of a superconducting diamagnetic torquer system**

4LPG: - Other Novel Applications II (Exhibit Hall)

4LPG-01	194	**Design algorithm of high homogenous multi-layer high magnetic superconducting magnet**
4LPG-02	195	**Thixotropic gel flow under superconducting magnets: analytical and numerical studies, experimental project**
4LPG-03	196	**Simulation of gravity controll effects on protein crystal growth using magnetic force**
4LPG-04	197	**Development of the high sensitivity instrument for in-vivo and fast examination of iron distribution within the animal torso**
4LPG-05	198	**Advanced applications based on the magnetic potential well (mpw)**
4LPG-06	199	**2-Axis electromagnetic stirring system was produced experimentally, and estimated with AC superconducting magnets**

4LPH: - Power Cable AC Loss and Co-Axial (Exhibit Hall)

4LPH-01	200	**Pitch design of hts cable core composed of coated conductors with NiW substrate**

Pres. Number	Poster Board #	Publishing Title
4LPH-02	201	**Hysteresis loss in power cables made of 2G HTS wires with NiW alloy substrate**
4LPH-03	202	**Thermal analysis of co-axial multi-layered BSCCO HTS power cable**
4LPH-04	203	**Measurements of AC loss and Current Distribution in Superconducting Cables**
4LPH-05	204	**Study of electric measurement method of AC loss in multi-layer HTS cable with HTS magnetic shield**
4LPH-06	205	**AC loss study with 5 m HTS model cables**
4LPH-07	206	**Ac loss measurement of a short HTS cable with shield by electrical method**
4LPH-08	207	**Design and evaluation of 66 kv class hts power cable using rebco wires**
4LPH-09	208	**A discussion on current distribution in multilayer ac HTS cables - proximity effect**

4LPJ: - Power Cable Over Current and Distribution (Exhibit Hall)

4LPJ-01	209	**Over-current characteristics of 66 kV RE123 HTS power cable**
4LPJ-02	210	**Over-current characteristics of a 275kV class YBCO power cable**
4LPJ-04	212	**Stability analysis of hts power cable with fault current**
4LPJ-05	213	**Numerical analysis of superconducting power cable during fault condition**
4LPJ-06	214	**Dynamic simulation of HTSC cables with conventional simulation program**
4LPJ-07	215	**Minimal path connection of superconducting power cable using Steiner tree**
4LPJ-08	216	**The analysis of current distribution for parallel HTS tapes**

4LPK: - Power Cable Projects and DC Cables (Exhibit Hall)

Pres. Number	Poster Board #	Publishing Title
4LPK-01	217	**Test Results of a 30m HTS cable for Yokohama Project**
4LPK-02	218	**Testing Results of 154kV HTS power cable in South Korea**
4LPK-03	219	**Progress on the performance test of KEPCO HTS power cable**
4LPK-04	220	**Harmonic dependant loss characteristic study of HTS cable using thyristor converter**
4LPK-05	221	**Critical current and its magnetic field effect measurement of HTS tapes forming DC superconducting cable**
4LPK-06	222	**A novel approach for design of HTS DC cable**
4LPK-07	223	**Development of dc superconducting cable for railway system**
4LPK-08	224	**Iron steel cryogenic pipe for DC superconducting power transmission line**

4LPL: - SFCL Hybrid and Others (Exhibit Hall)

4LPL-01	225	**Research on hybrid type superconducting fault current limiter with ybco cc**
4LPL-02	226	**A double line commutation type SFCL with first peak limiting function**
4LPL-03	227	**Experimental study on fault current limiting and uninterruptible power supplying characteristics of a SFCL using magnetic coupling of two coils**
4LPL-04	228	**Analysis on Operational characteristics of hybrid type superconductor fault current limiter with the first half cycle non-limiting operation**
4LPL-05	229	**Study on Peak Current Limiting Characteristics of a Flux-Lock Type SFCL using its third winding**
4LPL-06	230	**Increase characteristics of current limiting capacity of sfcl by using matrix-type sfcl module**
4LPL-07	231	**Characterization of Fault Voltages of Matrix-type SFCL with 1 x 9 Module**
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4LPM-03	235	**Normal zone propagation in pancake coils made out of YBCO coated conductors.**
4LPM-04	236	**Ac losses and transport current in roebel cable made of ybco coated conductor tapes**
4LPM-05	237	**Heat and quench propagation in ybco coated conductor coils at 4.2 k and subjected to applied fields - modeling and measurement**
4LPM-06	238	**Quench analysis of a high-current forced-flow HTS conductor for fusion magnets**
4LPM-07	239	**Thermal stability properties under the cryocooling condition for $YBa_2Cu_3O_7$ coated conductor tape**
4LPM-08	240	**Thermal stability of conduction-cooled YBCO pancake coil**
4LPM-10	242	**Benchmark of two quench simulation codes for the protection study of an high-field HTS insert dipole**
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4LPN-03	245	**Fault current limitation in power network by superconducting transformers made of 2G HTS**
4LPN-04	246	**Development of elemental technology for hts power transformer**
4LPN-05	247	**Design and loss analysis of an hts transformer with a large current capacity**
4LPN-06	248	**Novel self-limiting transformer with active magnetic short circuit using perfect YBCO wire loops**
4LPN-07	249	**Analysis of current limiting and recovery characteristics of Superconducting Fault Current Limiting Transformer (SFCLT) with YBCO coated conductors**

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4MPA-04	252	**Studies of ic and ac transport loss for the multi-layered 2g hts tapes used in an electric machine**
4MPA-05	253	**Influence of repeated mechanical stresses on AC magnetization losses in multi-filamentary Bi2223/Ag-sheathed wires**
4MPA-06	254	**Study on method to suppress decay of trapped magnetic fluxes in the hts bulk subjected to perturbation of external magnetic field by use of shielding ring wound of hts wire**
4MPA-08	256	**Measurements of AC losses in BISCOO HTS coil at different frequencies using electrical method**

4MPB: - AC Losses V (Exhibit Hall)

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4MPB-03	259	**The Temperature Dependence of transport AC Loss according to Superconducting Tape Array Geometry**
4MPB-04	260	**YBCO coated conductors patterned using microcontact printing**
4MPB-05	261	**Low loss NbTi superconducting rutherford cable manufacture for the SIS300 INFN model dipole**
4MPB-06	262	**Low loss magnesium diboride wires - development status, AC loss measurements, and simulations with numerical methods**
4MPB-07	263	**Hysteresis loss measurements for nbti and nb3sn wires**
4MPB-08	264	**Ac loss of MgB_2 superconducting wires in various temperatures**

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5EPA-02	82	**Advanced behavioral modeling of digital superconducting electronics by including timing and jitter information**
5EPA-03	83	**VHDL models of combinatorial gates in reciprocal quantum logic**

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5EPB-03	87	**Characterization of Bi2Sr2CaCu2Ox stacks fabricated by acid treatment process**
5EPB-04	88	**Shapiro step response of intrinsic Josephson junctions with high critical currents of $(Bi_{1-x}Pb_x)_2Sr_2CaCu_2O_y$**
5EPB-05	89	**Experiment Evidence of Quantum fluctuation at 30 K in submicron area of Bi2Sr2CaCu2O8+δ (Bi-2212) single crystal whisker**
5EPB-06	90	**Focussed-ion-beam deposition of compact on-chip resistors for environmental isolation of intrinsic Josephson junctions**

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5EPC-03	93	**Intrinsic surface resistance of YBCO thin films under the dc magnetic field**
5EPC-04	94	**MM wave surface impedance characterization of HTS films and single crystals using quasi-optical sapphire resonators**
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5EPC-07	97	**Microwave properties of Fe-based superconducting thin films**
5EPC-08	98	**Microwave dependence of a-axis oriented YBa2Cu3O7 thin film**
5EPC-09	99	**Modeling of nonlinear properties of high temperature superconducting thin films, using bardeen, cooper, schrieffer and lumped element circuit theories, for applications in ultra high frequency micro- and nano-electronics**

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5EPE-02	107	**Metastability in a Nb DC SQUID having nanobridge junctions**
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5EPE-04	109	**Analog models of neurons using Josephson junctions**
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5EPF-04	115	**Measuring energy dissipation in Josephson junctions used in superconducting quantum bits**
5EPF-05	116	**Design of superconducting microwave resonators for qubit read-out**
5EPF-06	117	**Superposition of inductive and capacitive coupling in superconducting LC resonators**
5EPF-07	118	**Loss dependence on geometry and applied power in superconducting coplanar resonators**
5EPF-08	119	**Measuring excess noise in superconducting micro-resonators with a Josephson parametric amplifier**

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5EPG-03	122	**Design and experimental evaluation of SQIF arrays with linear voltage response**
5EPG-04	123	**Microwave parametric oscillations in optically-illuminated superconducting mesoscopic structures**
5EPG-05	124	**Superconducting metamaterials for cloaking dc magnetic fields**
5EPG-07	126	**Two-stage directly-coupled superconducting quantum interference device array magnetometer**

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5EPH: - SQUIDS Fabrication and Characterization II (Exhibit Hall)

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5EPH-03	130	**Fabrication of low-noise HTS-SQUID gradiometers and magnetometers with ramp-edge Josephson junctions**
5EPH-04	131	**YBCO Step-Edge Junctions**
5EPH-05	132	**Fabrication and Properties of High-Tc YBCO SQUID with variable thickness bridges by Focused ion beam**
5EPH-06	133	**Fabrication of Bi2Sr2CaCu2O8 intrinsic dc-SQUID with a shunt resistor**
5EPH-07	134	Fabrication of HTS multilayer structures using chemical-mechanical polishing
5EPH-08	135	**Long baseline planar SQUID gradiometer for operation in a soft shielded environment**
5EPH-09	136	**Clarifying flux-to-voltage transfer function and effective area in superconducting-quantum-interference-device series arrays**
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5EPJ-03	140	**An Experimental study of ultra-low field NMR using a high-T_c dc-SQUID**
5EPJ-04	141	**Nuclear magnetic resonance and magnetic resonance imaging using high-T_c superconducting quantum interference devices in microtesla magnetic fields**

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5EPJ-06	143	**SQUID-based low field MRI using a MEG system for small animals**
5EPJ-07	144	**Progress on detection of liquid explosives using SQUID-based ULF MRI**
5EPJ-08	145	**Step-edge high-T_c superconducting-quantum-interference-device magnetometer for low-field nuclear magnetic resonance**

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5LPA-02	147	**Effect of barrel material on critical current measurements of RRP® Nb3sn wires***
5LPA-03	148	**Fabrication, qualification and test of high J_c ROEBEL $YBa_2Cu_3O_{7-\delta}$coated conductor cable for HEP magnets**
5LPA-04	149	**Bscco-2212 wire and cable studies**
5LPA-06	151	**Cabling and joint methods of high current cables made from hts tapes**
5LPA-07	152	**Experimentally determined ac losses of small CC cable models with in-phase alternating current and applied field**
5LPA-08	153	**Estimation of the critical current density from the measured values of perpendicular magnetization losses in HTS coated conductors**
5LPA-09	154	**An optimization of a NbTi superconductor having low ac-loss and high stability and current density**
5LPA-10	155	**Development of Nb_3Sn Rutherford cables with cores for LARP quadrupole models**
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5LPB-03	159	**Experiment study on cooling system of HTS synchronous machines**
5LPB-04	160	**HTS (high temperature superconductor) motor cooled by on-board cryocooler.**
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5LPB-09	165	**An innovative concept of storing cold energy for SFES (superconductor flywheel energy storage) system**
5LPB-10	166	**Helium based pulsating heat pipe for superconducting magnets**
5LPC: - Design Tools and Novel Configurations I (Exhibit Hall)		
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5LPC-02	168	**Effect of different inner diameter of outsert pancake windings on an HTS magnet with an insert and an outsert winding**
5LPC-03	169	**Magnetic field and stored energy of a BSCCO HTS magnet at various aspect ratio**
5LPC-05	171	**Design of coil bobbin structure for 2.5 MJ HTS SMES through stress analysis**
5LPC-06	172	**An optimal configuration design of superconducting magnets for DC reactor taking loss into account**
5LPD: - Design Tools and Novel Configuration II (Exhibit Hall)		
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5LPD-02	174	**Design and analysis of a self-centered cold mass support for the mice coupling magnets**

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5LPD-05	177	**Mechanical optimization of a high field Nb_3Al common coil magnet**
5LPD-06	178	**Design study on DC superconducting magnets with conductive sheets between turns**

5LPE: - Dielectrics: Transformers (Exhibit Hall)

5LPE-01	179	**High voltage dielectric characteristics of epoxy nanocomposites in liquid nitrogen for superconducting transformer**
5LPE-02	180	**Breakdown characteristics of the liquefied SF_6 gas and CF_4 gas in liquid nitrogen for high voltage bushings in cryogenic environment**
5LPE-03	181	**Correlation between Partial discharge and flashover characteristics of the insulation components of 154kV real scale HTS transformer**
5LPE-04	182	**The barrier effect on breakdown in 154 kV class HTS transformer**
5LPE-05	183	**Inter-turn dielectric properties of YBCO coils**
5LPE-06	184	**Electrical insulation paper and its physical properties at cryogenic temperatures**
5LPE-07	185	**Unifying data having different stressed area and volume effects on liquid nitrogen breakdown field**
5LPE-08	186	**A study on insulation characteristics of Nomex paper for an HTS cable**

5LPF: - Dielectrics: SFCL and SMES (Exhibit Hall)

5LPF-01	187	**Insulation test of mini-model for development of a 2.5 MJ class conduction-cooled HTS SMES**
5LPF-02	188	**Experimental study on the barrier effects in gaseous helium for the insulation design of a superconducting fault current limiter using a sub-cooled nitrogen cooling method**
5LPF-03	189	**Analysis on the dielectric characteristics of insulation gases for developing a high voltage superconducting fault current limiter**
5LPF-04	190	**Experimental study on the lightning impulse dielectric characteristics of sub-cooled liquid nitrogen for a high voltage superconducting fault current limiter**

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5LPG: - Fast Cycled Magnets and Magnets for Radioactive Ion Beams (Exhibit Hall)

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5LPG-02	193	**Superconducting magnets for the NICA accelerator complex in Dubna**
5LPG-03	194	**Field measurements on curved superconducting magnets**
5LPG-04	195	**Effect of an iron yoke on the field homogeneity in a superconducting Double-Helix bent dipole**
5LPG-05	196	**A model dipole for FAIR SIS300: 3D design of the mechanical structure**
5LPG-06	197	**The preparation of the LASA test station for the SIS300 model dipole**
5LPG-07	198	**Magnetic design optimization and quench study of a highly saturated superferric quadrupole for FAIR Super-FRS multiplets**
5LPG-08	199	**Radiation resistant superferric quadrupole magnets with warm iron**

5LPH: - LARP and LHC (Exhibit Hall)

5LPH-01	200	**Alternative mechanical structure for LARP Nb_3Sn quadrupoles**
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5LPH-04	203	**Thermodynamic modeling of new LHC inner triplet quadrupole magnets**
5LPH-05	204	**Thermal runaways in LHC interconnections: Experiments**
5LPH-06	205	**Production and quality assurance of the interconnection splices of the main bus bars during the LHC 2008-2009 shutdown**
5LPH-07	206	**Electrical interconnection of superconducting strands by electrolytic Cu deposition**
5LPH-08	207	**Superconducting link bus design for the Accelerator Project for Upgrade of LHC**

5LPJ: - Measurements and Analysis (Exhibit Hall)

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5LPJ-02	209	**Conduction-cooled Superconducting Magnet with 250mm bore size**
5LPJ-03	210	**Coupled thermal-magnetic analysis on thermally actuated superconducting flux pump**
5LPJ-05	212	**Magnetization of superconducting pellets in highly inhomogeneous magnetic field**

5LPK: - Measurements and Diagnostics (Exhibit Hall)

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5LPK-02	215	**An FBG sensor for strain measurement in superconducting magnets**
5LPK-03	216	**High-temperature superconducting YBaCuO device for measuring weak magnetic fields**
5LPK-04	217	**Some aspects of winding geometry control for ITER superconducting coils from magnetic measurements**
5LPK-05	218	**Instrumentation for local and integral magnetic field measurements of superconducting undulator coils**

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5LPK-07	220	**Novel set-up for the definition of the magnetic field quality of super- and normally conducting accelerator magnets**

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5LPL-03	223	**Thermal/electrical stabilities of YBCO coated conductor (CC) tapes impregnated with a solid argon (SAr)-LN2 mixture**
5LPL-04	224	**AC loss of superconducting racetrack coil in various magnetic conditions**
5LPL-05	225	**Achievement of high heat removal characteristic of superconducting magnets with built-in oscillating heat pipes**

5LPM: - Various Accelerator Magnet Topics (Exhibit Hall)

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5LPM-02	227	**Design and performance of focusing lenses for installation into superconducting cryomodules of a proton linac**
5LPM-03	228	**Conceptual design of an open midplane dipole model for muon collider ring**
5LPM-04	229	**Design and construction of the final focus quadrupole R&D magnet for Super-KEKB**
5LPM-05	230	**Magnetic field design of dipole magnet wound with high Tc superconductor tape considering current transport characteristics with anisotropic magnetic field dependence**
5LPM-06	231	**Design study of 4 T superconducting sector magnets in a 450 MeV/nucl booster cyclotron for carbon-ion therapy**

5MPA: - Bulk ReBCO I (Exhibit Hall)

5MPA-01	235	**Thermodynamic parameters of SmBa2Cu3Ox with varying oxygen content**
5MPA-02	236	**New approaches for enhancement of J_c for RE123 melt-solidified bulks**
5MPA-03	237	**Effect of nano-scale of $Y_2Ba_4CuMO_y$ (M:Ag, Ce) addition in bulk Y-Ba-Cu-O Superconductors**

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5MPA-04	238	**Influence of magnetic secondary phases on superconducting and magnetic properties of Melt-Textured $GdSr_2RuCu_2O_{8-delta}$ samples**
5MPA-05	239	**Structural parameters and granularity in ruthenocuprates: impact of Sr/Gd and Sr/Nd ratio**

5MPB: - Bulk ReBCO II (Exhibit Hall)

5MPB-01	241	**Enhancement of critical current densities and trapped flux of Gd-Ba-Cu-O bulk HTS doped with magnetic alloy particles**
5MPB-02	242	**Preparation and properties of high-quality melt growth Gd123 bulks with low void density - Flexural Strength at 77K -**
5MPB-03	243	**Influence of oxygen heat treatment for YBCO bulk of 100 kwh class superconductor flywheel energy storage system bearing**
5MPB-04	244	**Analysis of temperature and magnetic field distribution in superconducting bulk during pulsed field magnetization**
5MPB-05	245	**Drilled bulk high-temperature superconductors: enhancing the trapped magnetic flux by filling the holes with a ferromagnetic powder**

5MPC: - MgB2 Materials Science I (Exhibit Hall)

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5MPC-02	248	**Influence of hemoglobin addition on superconducting properties of highly dense MgB_2 bulk**
5MPC-03	249	**Structural and superconducting properties of highly dense MgB_2 bulk with pyrene addition**
5MPC-04	250	**Optimising the method of incorporating Si and C into MgB2**
5MPC-05	251	**Fabrication and superconducting properties of MgB_2 doped with polysiloxane based copolymers**
5MPC-06	252	**The effect of addition of Graphene on the superconducting properties of $Mg(B,C_{0.04})_2$**
5MPC-07	253	**The effects of lattice distortion on the superconductivity for nano-SiC doped MgB_2**
5MPC-08	254	**Influence of nanoparticle antimony trioxide powder on superconductivity in MgB_2 Bulk**

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5MPD: - MgB2 Materials Science II (Exhibit Hall)

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5MPD-03	257	**Anisotropy of Li, Al, C and Mn substituted MgB2 single crystals studied by thermopower and upper critical field**
5MPD-04	258	**Boron nano-sized powder synthesized in a plasma as a precursor for MgB_2 powder and wires**
5MPD-05	259	**Properties of MgB2 synthesized from MgB2H8 by thermal decomposition**
5MPD-06	260	**Mechanically Alloyed in-situ MgB_2: Influence of the precursor reactivity on deformability, microstructure and superconducting properties**

5MPE: - ReBCO and Ruthenate Properties (Exhibit Hall)

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5MPE-02	262	**Correlation between enhanced Tc, AC irreversibility line and heat treatment in HTC superconductors.**
5MPE-03	263	**Correlation between enhanced Tc, the unit cell volume and AC magnetic shielding in argon preheated (Y1-xEux)(SrBa)Cu3O6+z**
5MPE-04	264	**Evaluations of superconducting properties in REBCO coated conductors heat-treated under a reduced oxygen partial pressure for a superconducting joint**
5MPE-05	265	**Temperature dependence of thermal expansion and inelastic properties of YBaCuO HTSC**
5MPE-06	266	**Aging effect in differently coated BaZrO3-doped GdBaCuO thin films**
5MPE-07	267	**Magnetic orientation of superconductors with layered crystal structures**
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