

(3) High Field Laboratory for Superconducting Materials

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N : New / C : Continued

No	N or C	Title	Leader			Staff Member of IMR
			Institution	Status	Name	
1198	C	Fermi surface effects of organic conductors under high magnetic field	Grad. Sch. of Sci., Osaka City Univ.	Prof.	Keizo Murata	Takahiko Sasaki
1205	C	Quantum transport phenomena in semiconductor quantum wells and magnetic semiconductors	Res. Inst. of Elect. Com., Tohoku Univ.	Assoc. Prof.	Yuzo Ohno	Keiichi Koyama
1216	C	Microstructural variation of thin film electrodeposited in high magnetic field	Grad. Sch. of Energy Sci., Kyoto Univ.	Assoc. Prof.	Yasuhiro Fukunaka	Iwao Mogi
1234	C	Texture and Jc Characteristic of Bi-2223 Superconductors in High Magnetic Fields	Fac. of Engin. and Resource Sci., Akita Univ.	Prof.	Akihiko Nagata	Kazuo Watanabe
1262	C	Superconductivity of InN Based-Nitride Semiconductor	Sch. of Inf. Tech. and Electronics, Tokai Univ.	Prof.	Takashi Inushima	Taishi Takenobu
1269	C	Measurement of Critical Current Density in High Magnetic Field for Filamentary Oxide Superconductors and MgB2 New Superconductors	Fac. of Engin., Nagoya Inst. of Tech.	Assoc. Prof.	Tomoko Goto	Kazuo Watanabe
1271	C	Preparation of carbon microcoils / elastic silicon-resin composites under high magnetic field and tactile sensing properties	Fac. of Engin., Gifu Univ.	Prof.	Seiji Motojima	Satoshi Awaji
1272	C	Magneto-optical measurements of organic conductors	Mol. Photoscience Res. Center, Kobe Univ.	Prof.	Hitoshi Ohta	Keiichi Koyama
1273	C	A Study of Magnetic Anisotropies in R ₂ Fe ₁₇ N _x (0<x<3) Systems (R=Sm, Y, TM=Fe,Co,Ni)	Shizuoka Inst. of Sci. and Tech.	Assoc. Prof.	Kurima Kobayashi	Keiichi Koyama
1274	C	Magnetic-field effect on the magnon thermal-conductivity in low-dimensional quantum spin-systems	Grad. Sch. of Engin., Tohoku Univ.	Prof.	Yoji Koike	Norio Kobayashi
1279	C	Critical Current Properties of YBCO Coated Conductor under High Magnetic Field	Grad. Sch. of ISEE, Kyushu Univ.	Prof.	Masakatsu Takeo	Kazuo Watanabe
1282	C	Crystal Growth of Charge-Transfer Complexes under Strong Magnetic Field	Fac. of Engin., Kumamoto Univ.	Prof.	Noritaka Kuroda	Kazuo Watanabe
1293	C	Effect of Magnetic Field for the Growth Kinetics and Pattern Formation of Ice Crystal	Inst. of Low Temp. Sci., Hokkaido Univ.	Assoc. Prof.	Yoshizumi Furukawa	Iwao Mogi

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1294	C	Influence of high magnetic field on the Ca ²⁺ channel in skeletal muscle and structure properties of endomysium	Center for the Advancement of Higher Educ., Tohoku Univ.	Lectr.	Toshihiko Fujimoto	Satoshi Awaji
1298	C	Magneto transport properties of spin-dependent conduction materials in high magnetic field	Sch. of mat. Sci., Jpn. Adv. Inst. of Sci. and Tech.	Prof.	Hiddenobu Hori	Yoshihiro Iwasa
1302	C	Vortex phase diagram of Y1248 single crystal	Grad. Sch. of Engin., Osaka Pref. Univ.	Prof.	Takekazu Ishida	Norio Kobayashi
1306	C	Study of collective excitation in low-dimensional electron systems by microwave and milliwave techniques	Grad. Sch. of Sci., Tohoku Univ.	Prof.	Naoki Toyota	Keiichi Koyama
1312	C	Magnetism of nonequilibrium solid solution of the transition metal system	Shock Wave and Condensed Matter Res. Center, Kumamoto Univ.	Assoc. Prof.	Shigeru Mashimo	Keiichi Koyama
1316	C	Magneto-Optical Spectra in Diluted Magnetic Semiconductors at High-Fields and High-Pressures	Fac. of Sci., Okayama Univ.	Assoc. Prof.	Yasuhiro Matsuda	Keiichi Koyama
1317	C	Development of high-performance rare-earth permanent magnet materials by high magnetic field processing	Grad. Sch. of Engin., Tohoku Univ.	Assoc. Prof.	Hiroaki Kato	Keiichi Koyama
1319	C	Synthesis of Nd-Fe-B thin film magnet on semiconductor substrates	Fac. of Engin., Nagoya Inst. of Tech.	Res. Assoc.	Nobuyasu Adachi	Iwao Mogi, Keiichi Koyama
1321	C	Vortex phase diagram of oxide superconductor under gradient magnetic field	Sch. of mat. Sci., Jpn. Adv. Inst. of Sci. and Tech.	Res. Assoc.	Tomoyuki Naito	Norio Kobayashi
1323	C	Transverse compressive stress characteristics of superconducting coil using high strength Nb ₃ Sn wires	Fac. of Engin., Iwate Univ.	Prof.	Kazumune Katagiri	Gen Nishijima
1324	C	Measurements of metamagnetic transition in amorphous UPd ₂ Al ₃	Fac. of Engin., Tokushima Univ.	Prof.	Takashi Ohno	Keiichi Koyama
1326	C	Structural Modification of Thin Films Composed of Neutral Metal Complex Polymers by High Magnetic Field	Res. Inst. for Adv. Sci. & Tech., Osaka Pref. Univ.	Prof.	Toyonari Sugimoto	Kazuo Watanabe
1327	C	Vortex phase transition in MgB ₂ thin films and single crystals at low temperature	Center for Low Temp. Sci., Tohoku Univ.	Assoc. Prof.	Tsutomu Nojima	Terukazu Nishizaki
1333	C	Magnetic and Martensitic Properties of Ternary Compounds MM ^{1-x} X(MM ¹ :3d metal, X:Si,Ge)	Fac. of Engin., Tohoku Gakuin Univ.	Prof.	Takeshi Kanomata	Keiichi Koyama
1336	C	Nernst-Seebeck hybrid effect in high magnetic field	Fac. of Engin., Chubu Univ.	Prof.	Sakutaro Yamaguchi	Ichiro Yonenaga

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1337	N	Magnetism of the heavy f-electron system superconductor UGe2 in high magnetic field	Fac. of Engin. and Resource Sci., Akita Univ.	Assoc. Prof.	Takuo Sakon	Keiichi Koyama
1338	N	Physical properties of Fe-based itinerant-electron magnets with large magneto-volume effect and large magnetocaloric effect	Grad. Sch. of Engin., Tohoku Univ.	Prof.	Kazuaki Fukamichi	Keiichi Koyama
1339	N	Spin-density wave transitions in quasi-one-dimensional organic conductor	Grad. Sch. of Sci., Hokkaido Univ.	Prof.	Kazunari Nomura	Takahiko Sasaki
1340	N	Unusual metamagnetic transition of TbCu2Ge2	Fac. of Sci., Yamaguchi Univ.	Prof.	Thoru Shigeoka	Keiichi Koyama
1341	N	Magnetic control of charge stripe order in La-system high temperature superconductors	Grad. Sch. of Engin., Tohoku Univ.	Res. Assoc.	Tadashi Adachi	Norio Kobayashi
1342	N	Magnetic field-induced insulator metal transition in bilayer perovskite type strong correlated system	Fac of Engin, Iwate Univ.	Assoc. Prof.	Toshiaki Matsukawa	Norio Kobayashi
1343	N	Study of field-induced quantum phenomena by ESR measurements	Grad Sch of Sci, Kyusyu Univ.	Res. Assoc.	Takayuki Asano	Keiichi Koyama
1344	N	Study on upper critical field and critical current of low-temperature fabricated high quality MgB2 thin film	Interdisciplinary Fac. of Sci. and Engin, Shimane Univ.	Prof.	Syugo Kubo	Kazuo Watanabe
1345	N	NMR study on bose-glass phase system	Fac. of Sci. and Tech., Sophia Univ.	Assoc. Prof.	Takayuki Goto	Norio Kobayashi
1346	N	The Flux Pinning Properties of MgB2 Thin Films in the High Magnetic Field	Fac. of Engin., Kumamoto Univ.	Assoc. Prof.	Takanori Fujiyoshi	Satoshi Awaji
1347	N	Flux flow and high frequency response in Bi-2212 intrinsic Josephson junction under high magnetic field	Fac. of Sci and Tech., Hirosaki Univ.	Prof.	Kensuke Nakajima	Satoshi Awaji
1348	N	Super-Normal transition behavior in advanced composite superconductors	Fac of Engin., Okayama Univ.	Prof.	Satoru Murase	Kazuo Watanabe
1349	N	Dynamics of Electric Conduction in Liquid and Solid States, Semiconductors and Polymer Membrane	Fac. of Engin., Shizuoka Univ.	Prof.	Masami Ogita	Satoshi Awaji
1350	N	Study on thermal conductivity and transport critical current in bulk oxide superconductors	Department of Electrical and Computer Engin., Ichinoseki National College of Technology	Prof.	Takako Kikegawa	Satoshi Awaji
1351	N	Machano-electromagnetic properties of high strength practical superconducting wires	Fac. of Engin., Iwate Univ.	Prof.	Kazumune Katagiri	Kazuo Watanabe

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1352	N	Preparation of crystalline oriented films by inducing high magnetic field	Graduate School of Environmental Studies, Tohoku Univ.	Assoc. Prof.	Noboru Yoshikawa	Satoshi Awaji
1353	N	Magnetic transition of rare-earth-cobalt Laves compound $Y_{1-x}Er_xCo_2$ in high magnetic field	Fac. of Science, Univ. of the Ryukyus	Prof.	Katsuma Yagasaki	Keiichi Koyama
1354	N	Development of bulk superconducting magnet over 20 T	Fac. of Engin., Shibaura Institute of Technology	Prof.	Masato Murakami	Satoshi Awaji

【 独立行政法人 】

No	N* or C*	Title	Reader			Staff Member of IMR
			Institution	Status	Name	
3301	C	Synthesis of amorphous materials under magnetic levitation condition	National Institute of Advanced Industrial Science and Technology	Senior Res.er	Naoyuki Kitamura	Iwao Mogi

【 受託研究員等 】

No	N* or C*	Title	Reader			Staff Member of IMR
			Institution	Status	Name	
4412	C	Development of high strength Nb ₃ Sn wires	The Furukawa Electric Co., Ltd.	General manager	Sinnichiro Meguro	Kazuo Watanabe
4413	C	Development of R&W superconducting coil using high strength Nb ₃ Sn wires	Sumitomo Heavy Industries, Ltd.	Res. scientist	Masayuki Ishizuka	Kazuo Watanabe
4414	N	Mechanical and superconducting properties of distributed reinforced high strength Nb ₃ Sn wire after heat treatment	Hitachi Cable, Ltd.	Team leader	Genzo Iwaki	Kazuo Watanabe
4415	C	Development of Bi-system high temperature superconducting pancake coils	Showa Electric Wire & Cable co., Ltd.	Res. scientist	Nozomu Ohya	Kazuo Watanabe