

RHMF 2015 Program

WEDNESDAY July 1, 2015

18:00-21:30 Registration and Welcome party

	THURSDAY July 2, 2015	FRIDAY July 3, 2015	SATURDAY July 4, 2015
08:20-08:30	Opening		
	Magnetism 1 Chairman: HORVATIĆ	Semiconductors 2 Chairman: NICHOLAS	Instr. & Others 2 Chairman: NOJIRI
08:30-09:00	ZAPF	WIEDMANN	LAKE
09:00-09:30	MODIC	TIAN	FUCHS
09:30-09:50	ZVYAGIN	SMIRNOV	HILL
09:50-10:10	OHTA	MIYATA	ORLOVA
10:10-10:30	HAGIWARA	SZKOPEK	RŐOM
10:30-10:50	Coffee Break	Coffee Break	Coffee Break
	Superconductors 1 Chairman: BOEBINGER	Poster Session 2 (Even-numbered posters)	Magnetism 3 Chairman: BERTHIER
10:50-11:20	PROUST		ZHERLITSYN
11:20-11:50	RAMSHAW		MATSUDA
11:50-12:10	KLEIN		JAIME
12:10-12:30	CARRINGTON		STERN
12:30-14:00	Lunch	Lunch	Lunch
	Semicon. & SCES 1 Chairman: ZEITLER	Magnetism 2 Chairman: STERN	SCs & SCES 3 Chairman: WOSNITZA
14:00-14:30	FAUQUE	REYES	MOLL
14:30-15:00	MISHCHENKO	NISHIMOTO	PARK
15:00-15:20	SINGH	GRBIĆ	MITROVIĆ
15:20-15:40	MYDOSH	TANAKA	Coffee Break
15:40-16:00	Coffee Break	Coffee Break	Semiconductors 3 Chairman: RIKKEN
	Instrumentation 1 Chairman: PORTUGALL	Superconductors 2 Chairman: JÁNOSSY	KIM (15:40-16:10)
16:00-16:30	LI	JULIEN	EßER (16:10-16:30)
16:30-16:50	NARUMI	COLDEA	Closing (16:30-...)
16:50-17:10	KRÄMER	YU	
17:10-17:30	WANG		
17:30-19:30	Poster Session 1 (Odd-numbered posters)	Visit to LNCMI-Grenoble	
19:30-...		Conference Banquet	

Oral presentations:

Invited talk 30 minutes (including 8 minutes discussion)

Contributed talk 20 minutes (including 5 minutes discussion)

Posters:

All posters will be displayed during the entire conference. We recommend standard A0 size (84.1 cm × 118.9 cm) posters in the portrait orientation.

THURSDAY July 2, 2015

08:20-08:30	<i>Opening of the RHMF 2015 conference</i>
08:30-10:30	MAGNETISM 1 Chairman: Mladen HORVATIĆ
08:30-09:00 I-Thu-1.1, Invited	Vivien ZAPF <i>Record hard magnetism in an Iridate</i>
09:00-09:30 I-Thu-1.2, Invited	Kimberly A. MODIC <i>High magnetic field properties of a three-dimensional honeycomb iridate</i>
09:30-09:50 O-Thu-1.3	Sergei ZVYAGIN <i>Direct determination of exchange parameters in Cs_2CuBr_4 and Cs_2CuCl_4: high-field ESR studies</i>
09:50-10:10 O-Thu-1.4	Hitoshi OHTA <i>Unconventional antiferromagnetic resonance modes observed in multiferroic substance YCrO_3 by high-field ESR</i>
10:10-10:30 O-Thu-1.5	Masayuki HAGIWARA <i>High field magnetization of oxygen molecules encapsulated in single-walled carbon nanotubes</i>
10:30-10:50	Coffee Break
10:50-12:30	SUPERCONDUCTORS 1 Chairman: Gregory S. BOEBINGER
10:50-11:20 I-Thu-2.1, Invited	Cyril PROUST <i>Impact of charge order on the electronic properties of underdoped cuprates</i>
11:20-11:50 I-Thu-2.2, Invited	Brad. J. RAMSHAW <i>Quasiparticle mass enhancement approaching optimal doping in a high-T_c superconductor</i>
11:50-12:10 O-Thu-2.3	Thierry KLEIN <i>Thermodynamic phase diagram under high magnetic fields in underdoped $\text{YBa}_2\text{Cu}_3\text{O}_y$ single crystals</i>
12:10-12:30 O-Thu-2.4	Antony CARRINGTON <i>Quantum oscillations in $\text{YBa}_2\text{Cu}_4\text{O}_8$ under high pressure</i>
12:30-14:00	Lunch
14:00-15:40	SEMICONDUCTORS and SCES 1 Chairman: Uli ZEITLER
14:00-14:30 I-Thu-3.1, Invited	Benoît FAUQUE <i>Phase transitions induced by magnetic field in graphite</i>
14:30-15:00 I-Thu-3.2, Invited	Artem MISHCHENKO <i>Chirality and valley selection in graphene-based transistors</i>

15:00-15:20
O-Thu-3.3 Suruchi SINGH
**Scanning Tunneling Microscope in High Magnetic Fields:
Landau Levels on Graphite**

15:20-15:40
O-Thu-3.4 John A. MYDOSH
**High magnetic field tuning of some strongly correlated
uranium-based compounds**

15:40-16:00 Coffee Break

16:00-17:30 INSTRUMENTATION 1
Chairman: Oliver PORTUGALL

16:00-16:30
I-Thu-4.1, Invited Liang LI
**High performance pulsed high magnetic fields at Wuhan
National High Magnetic Field Center**

16:30-16:50
O-Thu-4.2 Yasuo NARUMI
**Separation of multiple magnetic sites by 40 T pulsed magnetic
field XMCD**

16:50-17:10
O-Sat-1.4 Steffen KRÄMER
(replaces O-Thu-4.3) **Nuclear magnetic resonance relaxivities: Investigations of
ultrahigh-spin lanthanide clusters up to 1.4 GHz and 32.9 T**

17:10-17:30
O-Thu-4.4 Zhao-Sheng WANG
**Shape magnetostriction measurements on LaCoO₃ in pulsed
magnetic fields up to 70T**

17:30-19:30 POSTER SESSION 1
(Odd-numbered posters)

FRIDAY July 3, 2015

08:30-10:30 SEMICONDUCTORS 2
Chairman: Robin J. NICHOLAS

08:30-09:00
I-Fri-1.1, Invited Steffen WIEDMANN
HgTe as a Topological Insulator

09:00-09:30
I-Fri-1.2, Invited Mingliang TIAN
**Angular dependent magnetoresistance of bismuth
nanoribbons: Evidence of topological two-dimensional metallic
surface states**

09:30-09:50
O-Fri-1.3 Dmitry SMIRNOV
**Magneto-spectroscopy of excitons in monolayer transition-
metal dichalcogenides**

09:50-10:10
O-Fri-1.4 Atsuhiko MIYATA
**Direct measurements of the exciton binding energy and
effective masses for charge carriers in organic-inorganic
perovskites**

10:10-10:30
O-Fri-1.5 Thomas SZKOPEK
**Two-Dimensional Magnetotransport in a Black Phosphorus
Naked Quantum Well**

10:30-10:50	Coffee Break
10:50-12:30	POSTER SESSION 2 (Even-numbered posters)
12:30-14:00	Lunch
14:00-15:40	MAGNETISM 2 Chairman: Raivo STERN
14:00-14:30 I-Fri-2.1, Invited	Arneil P. REYES <i>Exotic Magnetism in Quasi One-dimensional Frustrated Magnets</i>
14:30-15:00 I-Fri-2.2, Invited	Satoshi NISHIMOTO <i>Ground state and magnetization process of the spin-1/2 and spin-1 antiferromagnetic Heisenberg model on the kagome lattice</i>
15:00-15:20 O-Fri-2.3	Mihael S. GRBIĆ <i>Magnetic field induced level anticrossing in the "pinwheel" kagome compound $Rb_2Cu_3SnF_{12}$</i>
15:20-15:40 O-Fri-2.4	Hidekazu TANAKA <i>Quantum crystallization of magnons in almost perfectly frustrated dimer magnets $Ba_2MSi_2O_6Cl_2$ ($M=Co$ and Ni)</i>
15:40-16:00	Coffee Break
16:00-17:10	SUPERCONDUCTORS 2 Chairman: András JÁNOSSY
16:00-16:30 I-Fri-3.1, Invited	Marc-Henri JULIEN <i>Charge ordering in cuprates, with and without magnetic fields</i>
16:30-16:50 O-Fri-3.2	Amalia I. COLDEA <i>Emergence of the nematic electronic state in FeSe</i>
16:50-17:10 O-Fri-3.3	Jing Fei YU <i>Magnetization of underdoped YBCO above the irreversibility line</i>
17:10-19:30	Visit to LNCMI-Grenoble
19:30-	<i>Conference Banquet</i>

SATURDAY July 4, 2015

08:30-10:30	INSTRUMENTATION and OTHERS 2 Chairman: Hiroyuki NOJIRI
08:30-09:00 I-Sat-1.1, Invited	Bella LAKE <i>A new high magnetic field facility for neutron scattering providing fields up to 26 T at the Helmholtz Zentrum Berlin</i>
09:00-09:30 I-Sat-1.2, Invited	Julien FUCHS <i>Strong magnetization of laser-produced plasmas as a new tool for investigating for astrophysics and fusion physics</i>
09:30-09:50 O-Sat-1.3	Richard J. A. HILL <i>Studies of spinning, charged and vibrating droplets using diamagnetic levitation</i>
09:50-10:10 O-Thu-4.3 (replaces O-Sat-1.4)	Anna ORLOVA <i>State of the art and developments of NMR in pulsed magnetic fields at the LNCMI</i>
10:10-10:30 O-Sat-1.5	Toomas RÕÕM <i>Magnetic field induced directional dichroism of THz light</i>
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10:30-10:50	Coffee Break
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10:50-12:30	MAGNETISM 3 Chairman: Claude BERTHIER
10:50-11:20 I-Sat-2.1, Invited	Sergei ZHERLITSYN <i>Spin-lattice effects in high magnetic fields</i>
11:20-11:50 I-Sat-2.2, Invited	Yasuhiro H. MATSUDA <i>Novel phases induced by ultrahigh magnetic fields: The cases of SrCu₂(BO₃)₂ and solid oxygen</i>
11:50-12:10 O-Sat-2.3	Marcelo JAIME <i>Magnetic states of (frustrated) matter explored in SrCu₂(BO₃)₂ to 100 tesla</i>
12:10-12:30 O-Sat-2.4	Raivo STERN <i>Bose-Einstein Condensation of Magnons in Han Purple BaCuSi₂O₆ - an NMR, x-ray & neutron scattering, and DFT study</i>
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12:30-14:00	Lunch
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14:00-15:20	SUPERCONDUCTORS and SCES 3 Chairman: Joachim WOSNITZA
14:00-14:30 I-Sat-3.1, Invited	Philip J.W. MOLL <i>Focused Ion Beam microstructured crystals in high magnetic fields</i>
14:30-15:00 O-Sat-3.2, Invited	Tuson PARK <i>Unconventional superconductivity and tunable AFM QCPs</i>
15:00-15:20 O-Sat-3.3	Vesna F. MITROVIĆ <i>Evidence of Andreev bound states as a hallmark of the FFLO phase in an organic superconductor</i>

15:20-15:40 Coffee Break

15:40-16:30 SEMICONDUCTORS 3

Chairman: Geert RIKKEN

15:40-16:10
I-Sat-4.1, Invited

Jun Sung KIM
Highly Anisotropic Dirac Fermions in SrMnBi₂ and their valley-polarized interlayer conduction

16:10-16:30
O-Sat-4.2

Faina EBER
Mass of GaAsN in Pulsed Magnetic Fields up to 60 T with Free-Electron Laser IR Radiation

16:30-

CLOSING of the RHMF 2015 conference
