

CEMS Symposium on
Trends in Condensed
Matter PhysicsNovember 6-8, 2017
Saitama, Japan

Program

Timetable

Overview

Venue

Important Dates

Invited Speakers

Program

Registration

Presentations

Abstract

Organization

Contact Us

Links

	Nov 6 (Mon)	Nov 7 (Tue)	Nov 8 (Wed)
9:00	Registration		
10:00	Opening	9:30 Christian Pfeleiderer (40) Taro Nakajima (15) Yoshihiko Togawa (30)	9:30 Yayu Wang (40) Yoshikazu Mizuguchi (15) Motohiko Ezawa (15)
	Stuart S.P. Parkin (40) Yasujiro Taguchi (20)	Break	Break
	Break	Katsuya Shimizu (30) Ryotaro Arita (20) Masatoshi Sato (30)	Dai Aoki (30) Hazuki Furukawa (20) Tetsuo Hanaguri (20) Yoshihiro Iwasa (20)
12:30	Vincent Cros (40) Yoshinori Tokura (30)		
	Lunch		
14:00	Daniel I. Khomskii (40) Shingo Toyoda (15) Takuya Satoh (30)	Poster Session	13:50 Shuichi Murakami (30) Jobu Matsuno (15) Peter Stano (15) Kyoko Ishizaka (20)
	Break	Sumio Ishihara (30) Masao Nakamura (15) Naoki Ogawa (20)	Break
	Manfred Fiebig (40) Vilmos Kocsis (15) Taka-hisa Arima (20)	Break	Xi Dai (40) Toru Sakai (15) Takafumi Sato (30) Minoru Kawamura (15) Masashi Kawasaki (20)
	Poster Preview Session	Naoto Nagaosa (20) Silvia Picozzi (40)	Closing
18:30		Banquet	

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November 6 (Monday)

Morning Session

(Chair: D. I. Khomskii)

10:00 - 10:10 **Opening**10:10 - 10:50 **Stuart S.P. Parkin** (MPI Halle)
"Chiral domain walls and magnetic anti-skyrmions"10:50 - 11:10 **Yasujiro Taguchi** (RIKEN CEMS)
"Skyrmions at zero field and above room temperature"

11:10 - 11:30 Coffee Break

(Chair: M. Fiebig)

11:30 - 12:10 **Vincent Cros** (Unité Mixte de Physique CNRS/Thales)
"Room temperature nucleation, electrical detection and spin torque induced"

- 13:50 - 14:20 **Shuichi Murakami** (Tokyo Institute of Technology)
"Topology and transport in inversion-asymmetric crystals"
- 14:20 - 14:35 **Jobu Matsuno** (RIKEN CEMS)
"Magnetic proximity effect at epitaxial oxide interfaces"
- 14:35 - 14:50 **Peter Stano** (RIKEN CEMS)
"Majorana bound states in magnetic skyrmions"
- 14:50 - 15:10 **Kyoko Ishizaka** (The University of Tokyo & RIKEN CEMS)
"Polar domains and surface states in a Weyl semimetal"
- 15:10 - 15:40 Coffee Break
- (Chair: S. Murakami)
- 15:40 - 16:20 **Xi Dai** (Chinese Academy of Sciences)
"Non-collinear magnetic structure and multipolar order in $\text{Eu}_2\text{Ir}_2\text{O}_7$ "
- 16:20 - 16:35 **Toru Sakai** (University of Hyogo)
"Quantum spin liquid of kagome-lattice antiferromagnet"
- 16:35 - 17:05 **Takafumi Sato** (Tohoku University)
"Novel electronic states of topological nodal semimetals studied by ARPES"
- 17:05 - 17:20 **Minoru Kawamura** (RIKEN CEMS)
"Current-induced breakdown of quantum anomalous Hall effect in ferromagnetic topological insulators"
- 17:20 - 17:40 **Masashi Kawasaki** (The University of Tokyo & RIKEN CEMS)
"Topological functionalities in quantum materials"
- 17:40 - 17:50 Closing

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Poster Session

- P01 **Jin-Hong Park** (Institute for Basic Science)
"Non-symmorphic symmetry induced-instability and magnetic phase diagram in Sr_2IrO_4 "
- P02 **Taekoo Oh** (Seoul National University)
"Topological semimetals induced by magnetic control of the Luttinger q-term in pyrochlore iridates"
- P03 **Max A. Hirschberger** (RIKEN CEMS)
"Canted spin structures, local spin chirality, and anomalous Hall effect"
- P04 **Chen-Hsuan Hsu** (RIKEN CEMS)
"Nuclear-spin-induced edge resistance in two-dimensional topological insulators"
- P05 **Junyeong Ahn** (Seoul National University)
"Linking characterizes Z_2 monopole charge in nodal line semimetal"
- P06 **Kenji Yasuda** (The University of Tokyo)
"Quantized chiral edge conduction on reconfigurable domain walls of a magnetic topological insulator"
- P07 **Masataka Mogi** (The University of Tokyo)
"Observation of gigantic magnetoresistance in an engineered tricolor structure of topological insulator"
- P08 **Katsuya Iwaya** (RIKEN CEMS)
"STM studies of MBE-grown topological insulator thin film transferred by a UHV suitcase"
- P09 **Makoto Masuko** (The University of Tokyo)
"Magnetotransport properties of perovskite CaIrO_3 thin film"
- P10 **Hidetoshi Masuda** (The University of Tokyo)
"Magnetic structure dependence of SdH oscillations from quasi-2D Dirac fermions in EuMnBi_2 "