(The 2nd Alliance Workshop of the TMS project)

EPiQS-TMS Trans-Pacific Conference on Topological Quantum Materials

Gump Station, Moorea, Dec. 3-8, 2016 Program ver. 2016/12/01

Dec. 4th (Sun.)

	Program Introduction		Analytis	
9:00-	4A-1	Dusan Pejokovic	Moore	EPiQS QM
9:10-	4A-2	Toshimasa Fujisawa	Titech	TMS
9:20-	4A-3	Joel Moore	UCB	Gump Station
	Topo Theory		Asano	
9:30-	4A-4	Masatoshi Sato	Kyoto	Exotic states in topological phases
10:00-	4A-5	Leon Balents	UCSB	Emergent electromagnetic fields and topological defects
10:30-		Break		
	Topo Insulators, QHE		Moore	
11:00-	4A-6	Jenny Hoffman	Harvard	Surface states in a strongly correlated topological insulator, SmB6
11:30-	4A-7	Koji Muraki	NTT	Electron-hole coupled systems in inverted type-II quantum wells
12:00-		lunch+discussion		
	Posters		Kashiwaya	
15:00-	PS-1	James Analytis	UCB	Quantum critical scaling in unconventional superconductors
	PS-2	Toshimasa Fujisawa	Titech	Non-equilibrium charge and spin dynamics in quantum-Hall edge channels
	PS-3	Yusuke Nishida	Titech	Low-energy effective field theory of superfluid 3He-B and its gyromagnetic and Hall
	PS-4	Shingo Yonezawa	Kyoto	Nematic superconductivity in CuxBi2Se3 revealed by field-angle resolved calorimetory
	PS-5	Yoshiteru Maeno	Kyoto	Superconductivity in the antiperovskite Dirac metal Sr3SnO
	PS-6	Yuji Matsuda	Kyoto	BCS-BEC crossover and nontrivial Berry phase of Dirac-like electrons in FeSe
	PS-7	Masahumi Udagawa	Gakushuin	Linear nodes in Fermi, Majorana and Bosonic Systems

16:30-	Breakdown session I	Moore-Fujisawa

Dec. 5th (Mon.)

	Topo Magnets		Yacoby	
9:00-	5A-1	Yuji Matsuda	Kyoto	Detecting emergent photon and monopoles in quantum spin liquid state
9:30-	5A-2	Joe Orenstein	UCB	Optical probes of dynamic susceptibility in the “proximate Kitaev” system $RuCl_3$ and nonlinear susceptibility in the Weyl semimetal TaAs.
10:00-	5A-3	Masahumi Udagawa	Gakushuin	Recombination of fractional excitations in frustrated magnets and its experimental
10:30-		Break		
	Topo Theory		Sato	
11:00-	5A-4	Cenke Xu	UCSB	Stable self-dual conformal field theory in 2+1d, theory and possible experiments
11:30-	5A-5	Takahiro Morimoto	UBC	Topological aspects of nonlinear optical effects in noncentrosymmetric crystals
12:00-		lunch+discussion		
	Topo Superconductors, Majorana		Balents	
14:30-	5P-1	Ali Yazdani	Princeton	Detecting Majorana Spin Polarization
15:00-	5P-2	Takeshi Mizushima	Osaka	Topology and Symmetry of Unconventional Superconductors and Superfluids
15:30-	5P-3	Muneto Nitta	Keio	Neutron Superfluids
16:00-		Break		
	Topo Insulators, QHE		Fujisawa	
16:30-	5P-4	Satoru Masubuchi	Tokyo	Landau Level Splittings in Heterostructures with Multiple Graphene Layers
17:00-	5P-5	Pablo Jarillo-Herrero	MIT	Quantum Transport in van der Waals heterostructures

Dec. 6th (Tue.)

	Topo Superconductors, Majorana		Yonezawa	
9:00-	6A-1	Shoucheng Zhang	Stanford	Discovery of the Majorana fermion
9:30-	6A-2	Guo-qin Zheng	Okayama	Spin-rotation symmetry breaking in the superconducting state of CuxBi2Se3
10:00-	6A-3	Yasuhiro Asano	Hokkaido	Quantized conductance minimum in a NS junction and index theorem
10:30-		Break		
	Topo Magnets		Orenstein	
11:00-	6A-4	Joe Checkelsky	MIT	Antiferromagnetic Order in Topological Materials.
11:30-	6A-5	Yoshiteru Maeno	Kyoto	Large diamagnetism induced by DC Current in Mott insulators

16:30-	Breakdown session Ⅱ	Analytis-Maeno

Dec. 7th (Wed.)

	Topo Magnets		Hoffman	
9:00-	7A-1	Amir Yacoby	Harvard	Imaging Magnetic Skyrmions and Spin Chemical Potential Using NV centers in Diamond
9:30-	7A-2	Jun Fujioka	Tokyo	Magnetic field-induced multiple topological phases in pyrochlore iridates with Mott
10:00-	7A-3	Joji Nasu	Tokyo	Finite-temperature dynamics of emergent Majorana fermions in quantum spin liquids
10:30-		Break		
	Topo Insulators, QHE		Matsuda	
11:00-	7A-4	Peter Armitage	Johns Hopkins	Quantized Faraday and Kerr rotation and axion electrodynamics of a 3D topological
11:30-	7A-5	Nuh Gedik	MIT	Floquet-Bloch and Volkov States in Topological Insulators
12:00-		lunch+discussion		
	Topo Semimetals		Armitage	
14:30-	7P-1	James Analytis	UCB	Quantum oscillatory phenomena in Weyl and Dirac semimetals
15:00-	7P-2	Kyle Shen	Cornell	Correlated Semimetallic and Doped Mott Insulating States in Iridate Thin Films
15:30-	7P-3	Satoshi Fujimoto	Osaka	Geometrical responses in Weyl metals and Weyl superconductors
16:00-		Break		
	Topo Superconductors, Majorana		Maeno	
16:30-	7P-4	Vidya Madhavan	UIUC	QPI in the ruthenate Sr2RuO4 above and below TC
17:00-	7P-5	Satoshi Kashiwaya	AIST, Tsukuba	Test of broken time-reversal symmetry using Josephson junctions