CREST Kotani Team Mini-Workshop

- Topological Phases in Spintronics -

Date : 16th February (Sun.), 2014

Place : Seminar Room (2nd floor) , AIMR, Tohoku University (2-1-1, Katahira Aoba-ku, Sendai 980-8577, Japan)

"A Mathematical Challenge to a New Phase of Material Sciences" led by Motoko Kotani (Tohoku University) Organizing

Sponsored by

• Japan Science and Technology Agency (JST) CREST The Mathematics Program

· Research Institute for Mathematical Sciences, Kyoto University

Program

9:00- 9:50	Hermann Schulz-Baldes (Friedrich-Alexander-Universität Erlangen-Nürnberg)
	"Z_2 indices for odd symmetric Fredholm operators"
10:00-10:50	Shuichi Murakami (Tokyo Institute of Technology)
	"Topological phases in condensed matter"
11:00-11:50	Emil V. Prodan (Stern College for Women of Yeshiva University)
	"Invitation to a Computational Non-Commutative Geometry Program"
Lunch	
14:00-14:50	Mikio Furuta (The University of Tokyo)
	"Dirac operators on spin 4-manifolds and mod 2 index."
15:00-15:50	Hitoshi Moriyoshi (Nagoya University)
	"A generalization of the Atiyah-Singer index theorem in Fractal Geometry"
Tea break	
16:30-17:20	Peter Kuchment (Texas A&M University)

"Wannier function frames in presence of non-trivial Bloch bundles"