Noncommutative Geometry and K-Theory at Rits -The Fourth China-Japan Conference-

Program

March 26 - March 28, 2018

Conference Venue: Colloquium Room, West-wing 6F, Ritsumeikan University
Biwako-Kusatsu Campus

Schedule:

March 26, Monday

09:00 -	:	Registration
09:30-09:40	:	Opening Remarks
09:40-10:40	:	Raphaël Ponge (Seoul National University)
		"Noncommutative geometry, conformal invariants, and equivariant cohomology"
10:40-11:00	:	Coffee/Tea Break
11:00-12:00	:	Naoya Suzuki (National Institute of Technology, Akita College)
		"On some characteristic classes in the simplicial de Rham complex"

———Lunch Break——-

13:30-14:30	:	Goroh Ishiki (Tsukuba University)
		"Matrix geometry and string theory"
14:40-15:40	:	Yang Zhang (University of Manitoba)
		"Non-commutative Gröbner bases and applications"
15:40-16:00	:	Coffee/Tea Break
16:00-17:00	:	Kentaroh Yoshida (Kyoto University)
		"Introduction to Yang-Baxter deformations"

March 27, Tuesday

09:30-10:30	:	Hongzhi Liu (Fudan University)
		"Higher rho invariant, its definition and computation"
10:30-10:50	:	Coffee/Tea Break
10:50-11:50	:	Yoshiyasu Fukumoto (East China Normal University)
		"G-homotopy invariance of higher signature of proper G-manifolds for low degree cohomology"

———Lunch Break———-

13:20-14:20	:	Dapeng Zhou (East China Normal University)
		"Almost flat bundles and a nonvanishing theorem for K-theoretic indices"
14:30-15:30	:	Doman Takata (Kyoto University)
		"Towards an infinite-dimensional version of the Atiyah-Singer index theorem from the viewpoint of noncommutative geometry"
15:30-15:50	:	Coffee/Tea Break
15:50-16:50	:	Kai Wang (Fudan University)
		"Holomorphic isometries from the unit ball into symmetric domains"
17:00-18:00	:	Yosuke Kubota (RIKEN)
		"Relative higher index and almost flat bundles"
18:30-20:30	:	Banquet at Service Room, West-wing 6F

March 28, Wednesday

09:30-10:10	:	Toshikazu Natsume (Ritsumeikan Universssity)
		"Noncommutative geometry, its past 30 years and the future"
10:20-11:20	:	Tomohiro Fukaya (Tokyo Metropolitan University)
		"A coarse Cartan-Hadamard theorem with application to the coarse Baum-Connes conjecture"
11:30-12:30	:	Qin Wang (East China Normal University)
		"Some progress on the coarse Novikov conjecture"

———Lunch Break———-

14:00-15:00	:	Problem Session
15:00-	:	Free Discussion
18:00-20:00	:	Farewell Dinner