

Developments of mathematics at IPMU: in honor of Kyoji SAITO

Date: April 25th, 2017 - April 28th, 2017

Venue: Lecture Hall, Kavli IPMU main building

Program

April 25th

- 10:30 – 11:30 Michio Jimbo (Rikkyo University)
Integrals of motion from quantum toroidal algebras
- 11:45 – Lunch
- 13:45 – 14:45 Alexander Varchenko (University of North Carolina at Chapel Hill)
Elliptic dynamical quantum group $E_{\tau,y}(gl_2)$ and elliptic equivariant cohomology of cotangent bundles of Grassmannians
- 15:00 – Tea
- 15:30 – 16:30 Morihiko Saito (RIMS, Kyoto University)
Recent developments around b -functions
- 16:45 – 17:45 Takuro Mochizuki (RIMS, Kyoto University)
A Hukuhara-Levelt-Turrittin type theorem

April 26th

- 10:30 – 11:30 Nikita Nekrasov (SCGP, Stony Brook)
The Magnificent Four
- 11:45 – Lunch
- 13:45 – 14:45 Aleksander Belavin (ITEP, Moscow)
Superstring compactification and Frobenius manifold structures on the deformations of Gepner chiral rings
- 15:00 – Tea
- 15:30 – 16:30 Si Li (YMSC, Tsinghua University)
Vertex algebra, BV master equation and quantum primitive form
- 16:45 – 17:45 Shigeru Mukai (RIMS, Kyoto University)
Enrique surfaces whose automorphism groups are virtually free

April 27th

- 10:30 – 11:30 Kentaro Hori (Kavli IPMU)
Grade Restriction Rule from Hemisphere
- 11:45 – Lunch
- 13:45 – 14:45 Yukinobu Toda (Kavli IPMU)
Donaldson-Thomas invariants on abelian 3-folds and Fourier-Mukai transforms
- 15:00 – 15:30 Tea and Music Performance, by Kavli IPMU Chamber Orchestra,
 at “Piazza Fujiwara” (3rd floor)
- 15:45 – 16:45 Alexey Bondal (Steklov Math. Institute/Kavli IPMU)
TBA
- 17:00 – 18:00 Kyoji Saito (Kavli IPMU)
Highest weight Integrable Representations of Elliptic Lie algebra
- 19:00 – Banquet at “Oak Village Kashiwanoha”

April 28th

- 10:00 – 11:00 Hiroshi Iritani (Kyoto University)
Hodge-theoretic mirror symmetry for toric Deligne-Mumford stacks
- 11:15 – 12:15 Claus Hertling (University of Mannheim)
Marked singularities, Teichmüller spaces and Torelli type conjectures for them

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Organizers

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