

HILBERT SCHEMES, SHEAVES & REPRESENTATIONS

TRIESTE | JUNE 17 - 21 . 2013

2013 MEETING
OF THE VECTOR
BUNDLES
ON ALGEBRAIC
CURVES GROUP

Hilbert schemes of points are a traditional field of interest for algebraic geometers. Work by Nakajima and others established a relation between their geometry and the representation theory of Heisenberg-Clifford algebras.

More recent research connected Hilbert schemes with other infinite-dimensional algebras, such as Cherednik algebras, quantum Heisenberg algebras, Kac-Moody algebras, and so on. This conference aims at providing an updated survey of the state of the art in this area of research in its various aspects.

TOP ICS

categorification of the (quantized) Heisenberg algebra
Cherednik algebras, W-algebras
Ding-lohara algebras, shuffle algebras
moduli spaces of instantons and framed sheaves
instanton counting, Alday-Gaiotto-Tachikawa conjecture
instanton counting with surface operators,
moduli spaces of parabolic framed sheaves
moduli spaces of quiver representations, wall-crossing formulas

SPE AKE RS

S. Cautis University of Southern California
D. E. Diaconescu Rutgers University
M. Finkelberg IMU, IITP and State University High School of Economics, Moscow
I. Gordon University of Edinburgh
L. Göttsche ICTP, Trieste
M. Kool Imperial College, London
M. Jardim Universidade Estadual de Campinas
A. Negut Harvard University
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A. Savage University of Ottawa

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DEAD LINES

MARCH 31ST . 2013
FOR ASKING FOR FINANCIAL SUPPORT

Support for lodging will be available
for some participants, in particular Ph.D.
students and young Post-docs.

APRIL 30TH . 2013
FOR REGISTERING