

# 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

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Cherednik algebras,  $W$ -algebras

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Ding-lohara algebras, shuffle algebras

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moduli spaces of instantons and framed sheaves

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instanton counting, Alday-Gaiotto-Tachikawa conjecture

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instanton counting with surface operators, moduli spaces of parabolic framed sheaves

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moduli spaces of quiver representations, wall-crossing formulas

SPE  
AKE  
RS

S. Cautis University of Southern California

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D. E. Diaconescu Rutgers University

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M. Finkelberg IMU, IITP and State University High School of Economics, Moscow

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I. Gordon University of Edinburgh

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L. Göttsche ICTP, Trieste

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M. Kool Imperial College, London

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M. Jardim Universidade Estadual de Campinas

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A. Negut Harvard University

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J. V. Rennemo Imperial College, London

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L. Rybnikov IITP and State University High School of Economics, Moscow

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A. Savage University of Ottawa

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

INFO:  
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www.sissa.it/mp/vbac2013