

School and Workshop on Algebraic Geometry and Physics 2017

Monday, June 19, 2017 - Friday, June 23, 2017

SISSA

Scientific Program

LECTURERS:

Marta Mazzocco (University of Loughborough, UK): Quantum Teichmüller spaces, cluster algebras and Painlevé equations

Tony Pantev (University of Pennsylvania, USA): Parabolic Hecke eigensheaves

Fernando Rodríguez Villegas (ICTP, Italy): Geometry of character varieties via arithmetic techniques

Olivier Schiffmann (Université Paris-Sud and CNRS, France): Higgs stacks and Lie-like structures

SPEAKERS:

Allegretti Dylan (University of Sheffield, UK): Relating stability conditions and cluster varieties

Ben Davison (Glasgow University, UK): Character varieties and cohomological DT invariants

Sven Meinhardt (University of Sheffield, UK): Introducing Donaldson-Thomas theory with an eye towards character varieties

Anton Mellit (IST Austria): Cohomology of character varieties

CONTRIBUTED TALKS by:

Bousseau Pierrick (Imperial College London, UK): DT invariants from holomorphic curves and a geometric interpretation of Block- Göttsche invariants

Cambò Vincenzo (SISSA, Trieste, Italy): On the E-polynomial of parabolic $\mathrm{Sp}(2n)$ -character varieties

Tirelli Andrea (Imperial College London, UK): Symplectic resolutions for Higgs moduli spaces

Wyss Dimitri (EPF Lausanne/IST Austria): Topological mirror symmetry via p-adic integration

A round table will take place in the morning of Wednesday 21st. It will be moderated by Jacopo Stoppa, Vladimir Rubtsov and Szilard Szabo, and the panelists will be

Barbosa Rodrigo

Ganev Jordan

Ivanics Peter

Kivinen Oscar

Kononov Iakov

Kshirsagar Priya

Hamilton Eloïse

Kaur Inder

Li Penghui

Lukzen Elena

Matveeva Anastasia

Mereb Martin

Minets Aliaksandr

Mostaed Amir Mohammad

Nguyen Thi Quynh Trang

Nozad Azizet

Rava Claudio

Razavinia Farrokh

Sandor Andras

Sutherland Tom

uit de Bos Niels

It will be about open problems, questions (also arising from the lectures of the school) and possible research lines in the theory of Higgs moduli spaces, character varieties, cluster algebras, COHAs, stability conditions, etc. This will also be an activity of the ERC Starting Grant Project 307119 "Stability and wall-crossing in algebraic and differential geometry."

Please, visit [List of Contributions](#) to see the full programme.