

SCHOOL AND WORKSHOP ON ALGEBRAIC GEOMETRY AND PHYSICS

Higgs moduli spaces and character varieties

The celebrated Hausel-Letellier-Rodriguez Villegas conjectures provide unexpected links between different areas of algebraic and arithmetic geometry, such as the theory of Hilbert schemes of points, the Pandharipande-Thomas invariants for local curves, the cohomological Hall algebras à la Kontsevich-Soibelman and à la Schiffmann-Vasserot, gauge and string theories, etc.

The aim of this school is to provide an advanced introduction to this theory and to its most recent developments. The lectures will be completed by 4 talks by young brilliant mathematicians who are working at the forefront of this theory. Moreover, there will be space for some contributed talks by the younger participants.

WHEN

JUNE 19 TO 23, 2017

WHERE

SISSA

Via Beirut, 2-4
Trieste (Italy)

INFO

wagpseries@gmail.com

<http://indico.sissa.it/e/swagp2017>



LECTURERS

Marta Marzocco (University of Loughborough, UK)
Tony Pantev (University of Pennsylvania, USA)
Fernando Rodríguez Villegas (ICTP, Italy)
Olivier Schiffmann (Université Paris-Sud and CNRS, France)

SPEAKERS

Dylan Allegretti (University of Sheffield, UK)
Ben Davison (Glasgow University, UK)
Sven Meinhardt (University of Sheffield, UK)
Anton Mellit (IST Austria)

FUNDS

Some funds should be available to support, at least partially, the participation of some young scientists. During this event the "Elsevier Young Scientist Award" will be granted.

SCIENTIFIC COMMITTEE

U. Bruzzo (SISSA, Italy), **F. Rodríguez Villegas** (ICTP, Italy), **F. Sala** (Kavli IPMU, Tokyo, Japan), **J. Stoppa** (SISSA, Italy)

ORGANIZING COMMITTEE

U. Bruzzo, **F. Sala**, **J. Scalise** (SISSA, Italy)

SUPPORT

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