Seminar/Talk

[Q,R]=0 and Verlinde series

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Host: Tamas Hausel

The first part of the talk will be an introduction to Hamiltonian loop-group spaces, quasi-Hamiltonian spaces, their 'quantization', and the quantization-commutes-with-reduction ([Q,R]=0) theorem in this context. Combined with a vanishing result for higher cohomology, the [Q,R]=0 theorem implies the Verlinde formula for moduli spaces of flat connections on Riemann surfaces. In the second part of the talk, I will describe a new approach to the [Q,R]=0 theorem inspired by work of Paradan, Szenes-Vergne and Boysal-Vergne. The approach involves decomposing the fixed-point formula using a combinatorial identity, and re-organizing into a new formula with terms indexed by the critical values of the norm-square of the moment map. This is joint work with E. Meinrenken.

Wednesday, May 17, 2017 01:45pm - 03:45pm
Seminar room Big Ground floor / Office Bldg West (I21.EG.101)

This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station.
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https://ista.ac.at/en/campus/how-to-get-here/ The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.