



Mathematics and CS Seminar

$[Q,R]=0$ and Verlinde series

Yiannis Loizides

University of Toronto

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.

Please find a schedule of the ISTA Shuttle on our webpage:

<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.