



Seminar/Talk

Boundary q -characters of finite-dimensional representations of quantum affine symmetric pairs

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Host: Tamas Hausel

Frenkel and Reshetikhin introduced q -characters for finite-dimensional representations of quantum affine algebras, providing a fundamental tool in their representation theory. Together with Tomasz Przydziecki, we defined boundary q -characters for finite dimensional representations of quantum affine symmetric pairs of split and quasi-split types. In this talk, I will present a new joint work Tomasz Przydziecki on evaluation modules for split quantum affine symmetric pairs. By computing the action of generators in Lu and Wang's Drinfeld-type presentation on Gelfand-Tsetlin bases, we determine the spectrum of a large commutative subalgebra arising from this presentation. This leads to an explicit formula for boundary analogues of q -characters, which we interpret combinatorially in terms of semistandard Young tableaux. Our results show that boundary q -characters share familiar features with ordinary q -characters, while also exhibiting new phenomena, including an additional symmetry.

Thursday, June 18, 2026 01:00pm - 03:00pm

Office Bldg West / Ground floor / Heinzl Seminar Room (I21.EG.101)



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