

talk 3: Standard Extension algebras and Fukaya calculus

Monday 31 March 2025 14:00 (50 minutes)

In this talk I will talk about an old Lie theoretic problem, namely the computation of extensions between (parabolic) Verma modules and their composition. We give a description of the corresponding algebra of extension in terms of convolution algebras and cohomology of Kazhdan-Lusztig-Deodhar-Richardson varieties. In the special example of maximal parabolic Verma modules for \mathfrak{sl}_n we give an explicit combinatorial model and connect this with Fukaya categories.

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