

*Talk*

*March 31, 14:00 – 14:50*

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### **Standard Extension algebras and Fukaya calculus**

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  $sl_n$  we give an explicit combinatorial model and connect this with Fukaya categories.