



THE WEIZMANN INSTITUTE OF SCIENCE  
FACULTY OF MATHEMATICS AND COMPUTER SCIENCE

Algebraic Geometry and Representation Theory Seminar

on Wednesday, May 27, 2020  
at 16:30

Zoom meeting: <https://weizmann.zoom.us/j/98304397425>

Iordan Ganev  
WIS

Beilinson-Bernstein localization via wonderful asymptotics.

Abstract:

We explain how a doubled version of the Beilinson-Bernstein localization functor can be understood using the geometry of the wonderful compactification of a group. Specifically, bimodules for the Lie algebra give rise to monodromic D-modules on the horocycle space, and to filtered D-modules on the group that respect a certain matrix coefficients filtration. These two categories of D-modules are related via an associated graded construction in a way compatible with localization, Verdier specialization, the Vinberg semigroup, and additional structures. This talk is based on joint work with David Ben-Zvi.

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