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Coherent Satake functor

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To a reductive group G one can associate the so-called Langlands dual group G^\wedge . The geometric Satake equivalence is the statement that the category of representations of G^\wedge can be recovered as the category of $G(\mathbb{O})$ -equivariant D-modules on the affine Grassmannian of G . (In fact, this can be taken as the definition of G^\wedge via the Tannakian formalism). I will discuss an ongoing project with D. Arinkin where we aim at constructing the quasi-classical limit of the Satake equivalence, laying foundations for the local Hitchin-Langlands duality.

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