

November 7: Kobi Kremnizer (MIT), “Quantum localization.”

In this talk I will describe the quantum versions of Beilinson-Bernstein localization. It turns out that the geometry involved is non-commutative geometry for generic q (non-commutative flag variety) and for roots of unity it is (derived) algebraic geometry (Springer fibers and their derived versions). I will also describe how one can use this to prove various conjectures on quantum groups and their relation to modular representation theory.