

1162-16-231

Arkady Berenstein and **Jacob Greenstein*** (jacobg@ucr.edu). *Quantum Grothendieck resolutions and their representations*. Preliminary report.

In this talk we discuss classical, quantum and representation theoretic aspects of Grothendieck resolutions of a semisimple Lie group and its Poisson dual group. The link between the algebraic (respectively, quantum) versions of these resolutions is provided by the algebraic (respectively, quantum version) of the celebrated Semenov-Tian-Shansky map which is the core of our constructions. (Received September 01, 2020)