

Algebra/Topology Seminar

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QUIVER VARIETIES AND SYMMETRIC PAIRS

Thursday, March 1, 2018

1:15 p.m. in ES-143

ABSTRACT. To an *ADE* Dynkin diagram, one can attach a simply-laced complex simple Lie algebra, say \mathfrak{g} , and a class of Nakajima's quiver varieties. The latter provides a natural home for a geometric representation theory of the former. If the algebra \mathfrak{g} is further equipped with an involution, it leads to a so-called symmetric pair $(\mathfrak{g}, \mathfrak{k})$, where \mathfrak{k} is the fixed-point subalgebra under involution. In this talk, I'll present bridges at several levels between symmetric pairs and Nakajima varieties.