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Representation and Number Theory Seminar

Derived Blow-ups and Birational Geometry of Nested Quiver Varieties

by

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Abstract

Given a quiver, Nakajima introduced the quiver variety and the Hecke correspondence, which is a closed subvariety of Cartesian products of quiver varieties. We consider two nested quiver varieties as fiber products of Hecke correspondences along natural projections. After blowing up the diagonal, we prove that they are isomorphic to a quadruple moduli space which Neguţ observed for the Jordan quiver. Moreover, this blow up has a derived enhancement in the recent theory of Hekking.

Date	:	24 March 2023 (Friday)
Time	:	10:00am – 11:00am (Hong Kong Time)
Venue	:	Room 219, Lady Shaw Building, CUHK

All are Welcome