

New Perspectives on Hyperkähler Manifolds - A Celebration of Dimitri Markushevich's (60+2)nd Birthday

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Moduli of complexes on a Veronese double cone

Tuesday, 14 June 2022 12:00 (30 minutes)

I will describe moduli spaces of complexes in the derived category of a general Veronese double cone. The focus will be on objects of the same class of ideal sheaves of lines: first, one observes that both the space of Gieseker stable sheaves and that of complexes in the Kuznetsov component admit two components. One component parametrizes ideal sheaves of lines and appears in both moduli spaces, the appearance of the additional ones is a behavior special to low degree. We show that the additional components are not directly related by a wall-crossing, by describing an intermediate moduli space as a space of Pandharipande-Thomas stable pairs. This is joint work with Marin Petkovic.

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