

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

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Motives of moduli spaces and hyper-Kähler varieties

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The best-known examples of hyper-Kähler varieties are obtained considering moduli spaces of sheaves on a K3 or abelian surface. The motive of a hyper-Kähler variety so constructed should be entirely governed by the underlying surface; more concretely, we expect to be able to give a formula for such a motive in terms of that of the surface. I will explain what is known about this problem and some related conjectures. I will then present a formula for the motive of O'Grady's six dimensional varieties obtained via the desingularization of certain moduli spaces of sheaves on an abelian surface, and discuss some consequences.

Primary author: FLOCCARI, Salvatore (Leibniz Universität Hannover, Germany)

Presenter: FLOCCARI, Salvatore (Leibniz Universität Hannover, Germany)