

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

Contribution ID: 31

Type: **In-person Talk**

Irrational Gushel Mukai threefolds

Tuesday, 14 June 2022 16:00 (1 hour)

We construct an explicit complex smooth Fano threefold with Picard number 1, index 1, and degree 10 (a Gushel-Mukai threefold) and prove that it is not rational by showing that its intermediate Jacobian has a faithful $\mathrm{PSL}(2, F_{11})$ action. The construction is based on a very special double EPW sextic. This is joint work with O. Debarre.

Primary author: MONGARDI, Giovanni (Università degli Studi di Bologna, Italy)

Presenter: MONGARDI, Giovanni (Università degli Studi di Bologna, Italy)