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 $\mathsf{PSL}(2, F11)$ action. The construction is based on a very special double EPW sextic. This is joint work with O. Debarre.

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