

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

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Type: **In-person Talk**

Fano fourfolds of K3 type

Wednesday, 15 June 2022 09:30 (1 hour)

A joint project with M. Bernardara, E. Fatighenti and F. Tantarri aims at classifying all Fano fourfolds that can be obtained as zero loci of sections of vector bundles on Grassmannians, or more generally products of flag manifolds. Among those, we found 64 families of Fano fourfold of K3 type, whose Hodge structures look like that of a K3 surface. Such varieties usually exhibit some interesting geometry, potentially related to hyperKähler varieties. I will present and discuss some of the most interesting ones.

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