

Seminari de Geometria Algebraica 2007/2008 (UB-UPC)

Divendres 14 de desembre a les 15h. a l'aula B5

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On the Kodaira dimension of the moduli space of polarized $K3$ surfaces

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Let \mathcal{F}_{2d} be the moduli space of polarized $K3$ -surfaces of degree $2d$. Due to the global Torelli theorem this moduli space can be identified with the quotient of a 19-dimensional homogeneous domain of type IV by an arithmetic group. We prove that the spaces \mathcal{F}_{2d} are of general type for $d > 61$ and for $d = 46, 50, 54, 58, 60$. This is joint work with V. Gritsenko and G.K. Sankaran.
