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A Vafa-Witten invariant for projective surfaces

Wednesday 29 June 2016 11:30 (50 minutes)

I will describe joint work with Yuuji Tanaka. We define a Vafa-Witten invariant for algebraic surfaces. For Fano and K3 surfaces, a standard vanishing theorem means it reduces to (roughly speaking) the Euler characteristic of the moduli space of sheaves on the surface. For general type surfaces there are other contributions, which we calculate.

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