

Dr. Justin Sawon (Stony Brook)

Lagrangian foliations on holomorphic symplectic fourfolds

TIME:

12 Jul 2006, 17:00

LOCATION:

HU Berlin
Institut für Mathematik
Rudower Chaussee 25, Raum I.013
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In this talk we will discuss holomorphic symplectic fourfolds (compact hyperkaehler manifolds of real dimension eight) which admit fibrations by abelian surfaces. It is expected that every such fourfold can be deformed to such a fibration. We will describe some recent results on the polarization of the generic fibre and the degree of the discriminant locus parametrizing singular fibres. The motivation is to classify these Lagrangian fibrations and hence all holomorphic symplectic fourfolds.

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