

## **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  
12489 Berlin

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.

**Contact:**

Humboldt-Universität zu Berlin . Institut für Mathematik  
SFB 647 . Unter den Linden 6 . 10099 Berlin  
Tel. +49 30 2093 1804 . Fax. +49 30 2093 2727  
sfb647@math.hu-berlin.de