THE UNIVERSITY  OF HONG KONG

Institute of Mathematical Research
Department of Mathematics

GEOMETRY SEMINAR

Hyper-Kähler fibrations

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Abstract

We consider hyper-Kähler manifolds of complex dimension 4 which are fibrations. It is known that the fibers are abelian varieties and the base is $\mathbb{P}^2$. We assume that the general fiber is isomorphic to a product of two elliptic curves. Our result is that such a hyper-Kähler manifold is deformation equivalent to a Hilbert scheme of two points on a K3 surface.

Date:	**April 6, 2009 (Monday)**
Time:	**3:00 – 4:00pm**
Place:	**Room 517, Meng Wah Complex, HKU**

Tea will be held in Room 516, Meng Wah Complex at 4:00pm

All are welcome