

## Jun-Muk Hwang (KIAS Seoul) Fibrations of projective irreducible symplectic manifolds

## TIME:

18 Nov 2008, 9:30 - 11:00

## **LOCATION:**

HU-Berlin Rudower Chaussee 25, Raum 3.006 (Haus 3, Erdgeschoss) 12489 Berlin-Adlershof

Given a projective hyperkaehler manifold M of dimension 2n, a projective manifold X and a surjective holomorphic map f:M -> X with connected fibers of positive dimension, we prove that X is biholomorphic to the projective space of dimension n. The proof is obtained by exploiting two geometric structures at general points ofX: the affine structure arising from the action variables of the Lagrangian fibration f and the structure defined by the variety of minimal rational tangents on the Fano manifold X.