



## Prof. Nigel Hitchin (Oxford) Higgs bundles and semi-flat metrics

**TIME:**

12 Dec 2008, 14:00

**LOCATION:**

HU-Berlin  
Institut für Mathematik  
Rudower Chaussee 25, Raum 3.001  
12489 Berlin

A recent paper of Yau, Zaslow and Loftin discussed the degeneration of special Lagrangian tori fibrations in semi-flat Calabi-Yau manifolds in terms of affine spheres and the Tzitzeica equation. I shall view this in the language of Higgs bundles and projective structures on surfaces and then move on to the work of my student David Baraglia on the analogous issue for  $G_2$  manifolds with coassociative torus fibrations.

**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

[www.raumzeitmaterie.de](http://www.raumzeitmaterie.de)