



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

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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.

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