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Thursday, November 14, 2013
2:00 PM
258 Hurley Hall

Title: Symplectic Calabi-Yau surfaces

Abstract:

Symplectic 4-manifolds with negative Kodaira dimension have been classified up to symplectomorphisms. In the next case, Kodaira dimension zero, the minimal ones are the symplectic analogues of the Calabi-Yau surfaces.

There is a speculation that such a manifold is diffeomorphic to $K3$, Enriques surface or a torus bundle over torus. I will discuss what is known towards this conjectured smooth classification.