



Geometry Webinar AmSur/AmSul

Pluriclosed manifolds with parallel Bismut torsion

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Resumo: Several special non-Kähler Hermitian metrics can be introduced on complex manifolds. Among them, pluriclosed metrics deserve particular attention. They can be defined on a complex manifold by saying that the torsion of the Bismut connection associated to the metric is closed. These metrics always exist on compact complex surfaces but the situation in higher dimension is very different. We will discuss several properties concerning these metrics also in relation with the torsion of the Bismut connection being parallel. This is joint work with G. Barbaro and F. Pediconi.