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Hodge theory for twisted differentials. (English) Zbl 1320.32027
Complex Manifolds 1, 64-85 (2014).

Summary: We study cohomologies and Hodge theory for complex manifolds with twisted differentials. In particular, we get another cohomological obstruction for manifolds in class \mathcal{C} of Fujiki. We give a Hodge-theoretical proof of the characterization of solvmanifolds in class \mathcal{C} of Fujiki, first stated by D. Arapura.

MSC:

32M10 Homogeneous complex manifolds
53C30 Differential geometry of homogeneous manifolds
58A14 Hodge theory in global analysis

Cited in 7 Documents

Keywords:

complex manifolds with twisted differentials; Hodge theory; manifolds of class \mathcal{C} of Fujiki

Full Text: [DOI](#) [arXiv](#)

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