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Kahler manifolds of complex dimension 2, AKA Kahler surfaces

Hermitian vector bundles

(Hitchin-Kobayashi correspondence) Let E be a Hermitian vector bundle over a Kahler surface X . Then

$$\frac{\{\text{irr anti-self dual connections on } E\}}{SU(n)\text{-gauge}} \leftrightarrow \frac{\{\text{stable hol structures on } E\}}{SL_{\mathbb{C}}(n)\text{-gauge}}$$



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- [structures based on sets](#)
 - [manifolds](#)
 - [Kahler manifolds of complex dimension 2, AKA Kahler surfaces](#)

And it has 20 siblings.

- [structures based on sets](#)
 - [manifolds](#)
 - [Closed aspherical manifolds](#)
 - [ℂ-manifold](#)
 - [Hermitian manifolds](#)
 - [Kahler manifolds](#)
 - [Kahler manifolds of complex dimension 2, AKA Kahler surfaces](#)
 - [smooth ℝ-manifold](#)
 - [Principal bundles over smooth manifolds](#)
 - [Manifold with a flow](#)
 - [ℝ-manifold group \(Lie groups\)](#)
 - [Homogeneous manifold](#)
 - [Finsler manifold](#)
 - [ℝ-manifold semi-Riemannian](#)
 - [Sub-Riemannian manifolds](#)
 - [ℝ-manifold Poisson](#)
 - [ℝ-manifold symplectic](#)
 - [Multisymplectic manifolds](#)
 - [Spin ℝ-manifold](#)
 - [ℝ-manifold topological](#)
 - [Toric manifolds](#)
 - [Manifolds with compatible triples](#)