Info

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Holomorphic vector bundles on $\mathbb{C}\boldsymbol{P}^1$

(Birkhoff–Grothendieck theorem) Every holomorphic vector bundle on Riemann sphere $E \to \mathbb{C}P^1$ is holomorphically isomorphic to a direct sum of line bundles

$$E \cong_{\text{HolVecBun}(\mathbb{C}P^1)} \cong_{i=1}^{n} O_{a_i}$$

[1]

Current note has 0 direct children and 0 total descendants.

- stretchy
  - S^2 and $\mathbb{C}\boldsymbol{P}^1$
    - Holomorphic vector bundles on $\mathbb{C}\boldsymbol{P}^1$

And it has 10 siblings.

- stretchy
  - S^2 and $\mathbb{C}\boldsymbol{P}^1$
    - Almost complex structure on S^2 induced from spherical metric and its area form
    - Borsuk-Ulam theorem
    - Cylindrical coordinates on S^2
    - Holomorphic vector bundles on $\mathbb{C}\boldsymbol{P}^1$
    - Round metric on S^2
    - The area form on round S^2
    - Stereographic coordinates on the sphere S^2
    - TS^2
    - Vector fields on S^2
    - Hamiltonian flows on the sphere S^2

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1. Birkhoff–Grothendieck theorem - Wikipedia ↩