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Derivative of holomorphic functions

Definition. Derivative of holomorphic functions

The complex derivative

$$\begin{aligned} \frac{\partial}{\partial z} : \mathcal{C}^{\mathcal{H}}(U) &\rightarrow \mathcal{C}^{\mathcal{H}}(U) \\ f &\mapsto \frac{\partial f}{\partial z} \end{aligned}$$

is a $\mathcal{C}^{\mathcal{H}}$ -module derivation and a $\mathbb{C}$ -linear map.

- its a morphism of sheaves!
 - locally invertible!
- e^{az} is the unique eigenvector with eigenvalue a

Current note has 0 direct children and 0 total descendants.

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And it has 4 siblings.

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