

Info

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Sheaf of holomorphic functions on \mathbb{C}

The stalk at $z \in \mathbb{C}$ of the sheaf of holomorphic functions on \mathbb{C} is isomorphic to the ring of all power series centered at z

$$\mathcal{O}_{\mathbb{C},z} \cong \mathbb{C} \{\{X - z\}\}$$

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- [space \$\mathcal{O}\(U\)\$](#)
- [space \$\mathbb{C}\$](#) $\mathcal{O}(\mathbb{C})$
- [space \$D\$](#) $\mathcal{O}(D)$
- [space \$D\$ closed](#) $\mathcal{O}(\bar{D})$
- [space \$D\$ cnt bd](#) $\mathcal{O}(D) \cap \mathcal{C}(\bar{D})$
- [space \$D\$ \$L^2\$](#) $\mathcal{O} \cap L^2(D)$
- [space \$H\$](#) $\mathcal{O}^p(H^2_{\bar{U}})$
- [space \$L^p\$](#) $\mathcal{O} \cap L^p$
- [space \$S^1\$](#) $\mathcal{O}(S^1)$
- [zeros and singularities](#) Zeros and singularities of holomorphic functions