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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

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

Current note has 0 direct children and 0 total descendants.

- stem
 - subobjects of and functions on $\mathbb{R}^n, S^n, \mathbb{C}^n$ and its quotients $\Gamma \backslash \mathbb{R}^n, \Gamma \backslash \mathbb{C}^n$
 - Holomorphic functions on spaces over $\mathbb{C}$ of dimension 1
 - Sheaf of holomorphic functions on $\mathbb{C}$

And it has 19 siblings.

- stem
 - subobjects of and functions on $\mathbb{R}^n, S^n, \mathbb{C}^n$ and its quotients $\Gamma \backslash \mathbb{R}^n, \Gamma \backslash \mathbb{C}^n$
 - Holomorphic functions on spaces over $\mathbb{C}$ of dimension 1
 - Approximation of holomorphic functions on $\mathbb{C}$ by rational functions
 - Embedding unit disk D into $\mathbb{C}^3$
 - Factorization of holomorphic functions on $\mathbb{C}$
 - Global holomorphic functions
 - Equivalent descriptions of holomorphic functions
 - Meromorphic functions on the complex plane
 - Holomorphic functions meromorphic at infinity
 - Modular forms
 - Reconstructing meromorphic functions from stalks
 - Extending holomorphic functions by reflections
 - Rotational symmetrization of holomorphic functions
 - Sheaf of holomorphic functions on $\mathbb{C}$
 - $\mathcal{O}(U)$
 - $\mathcal{O}(\mathbb{C})$
 - $\mathcal{O}(D)$
 - $\mathcal{O}^p(H^2_U)$
 - $\mathcal{O} \cap L^p$
 - $\mathcal{O}(S^1)$
 - Zeros and singularities of holomorphic functions