

Info

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$$\mathcal{O}^p(H_{\mathbb{U}}^2)$$

Definition.

$$\mathcal{O}^p(H_{\mathbb{U}}^2) := \left\{ f \in \mathcal{O} \mid \sup_{y \in (0, \infty)} \int_{\mathbb{R} + iy} |f|^p < \infty \right\}$$

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 - [Hol](#) Equivalent descriptions of holomorphic functions
 - [Mer](#) Meromorphic functions on the complex plane
 - [Mer at infinity](#) Holomorphic functions meromorphic at infinity
 - [modular](#) Modular forms
 - [recons mer from stalk](#) Reconstructing meromorphic functions from stalks

- reflection Extending holomorphic functions by reflections
- rotation symmetrizer Rotational symmetrization of holomorphic functions
- sheaf Sheaf of holomorphic functions on \mathbb{C}
- space U $\mathcal{O}(U)$
- 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 $\mathcal{O}^p(H_{\bar{U}}^2)$
- space L^p $\mathcal{O} \cap L^p$
- space S^1 $\mathcal{O}(S^1)$
- zeros and singularities Zeros and singularities of holomorphic functions