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Fourier transform of distributions on S^1

Fourier transform of distributions on S^1 is onto the space of $\mathbb{Z}$ -sequences of *polynomial growth*

$$\frown : \mathcal{C}^\infty(S^1)^\star \cong \{a \in \mathbb{C}^\mathbb{Z} \mid \exists N : |a_\bullet| \lesssim (1 + |\bullet|)^N \text{ on } \mathbb{Z}\}$$

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 $\Gamma \backslash \mathbb{R}^n, \Gamma \backslash \mathbb{C}^n$
 - Fourier
 - Fourier transform of distributions on S^1

And it has 10 siblings.

- stem
 - subobjects of and functions on $\mathbb{R}^n, S^n, \mathbb{C}^n$ and its quotients $\Gamma \backslash \mathbb{R}^n, \Gamma \backslash \mathbb{C}^n$
 - Fourier
 - Fourier transform on $L^2(-A, A) \leq L^2(\mathbb{R})$
 - $\frown : L^2(0, \infty) \cong_{\text{Hilb}} \mathcal{O}^2(H^2_{\mathbb{U}})$
 - Fourier transform on $\mathbb{R}^n$
 - Fourier transform on S^1 , Fourier series on $[0, 1]$
 - Functions on S^1 with absolutely converging Fourier series, $\check{l}^1(S^1)$
 - Fourier transform of distributions on S^1
 - $\frown : L^1[0, 1] \rightarrow \mathcal{C}_0(\mathbb{Z}, \mathbb{C})$
 - $\frown : L^2[0, 1] \cong_{\text{Hilb}} l^2(\mathbb{Z}, \mathbb{C})$
 - Fourier transform of measurable subsets
 - Unsharpness principles