Distribuce	Fourierova transformace
$f \in L^1(\mathbb{R}^N)$, $T_f \in \mathcal{S}'(\mathbb{R}^N)$	$T_{\mathcal{F}(f)}$, $\mathcal{F}(f) = \int_{\mathbb{R}^N} f(x)\mathrm{e}^{-2\pi\mathrm{i}(x,\xi)}\,\mathrm{d}x$
$f \in L^2(\mathbb{R}^N)$, $T_f \in \mathcal{S}'(\mathbb{R}^N)$	$T_{\mathcal{F}(f)}$, $\mathcal{F}(f) = \lim_{R\to\infty} \int_{B_R(0)} f(x)\mathrm{e}^{-2\pi\mathrm{i}(x,\xi)}\,\mathrm{d}x$
$\delta \in \mathcal{S}'(\mathbb{R})$	$\mathcal{F}(\delta) = T_1$
$T_1 \in \mathcal{S}'(\mathbb{R})$	$\mathcal{F}(T_1) = \delta$
$T_{x^n} \in \mathcal{S}'(\mathbb{R}) \quad n \in \mathbb{N}$	$\mathcal{F}(T_{x^n}) = \frac{1}{(-2\pi\mathrm{i})^n} D^n\delta$
$D^n\delta \in \mathcal{S}'(\mathbb{R}) \quad n \in \mathbb{N}$	$\mathcal{F}(D^n\delta) = (2\pi\mathrm{i})^n T_{\xi^n}$
$T_{\mathrm{e}^{2\pi\mathrm{i}bx}} \in \mathcal{D}'_{\mathbb{C}}(\mathbb{R}) \quad b \in \mathbb{C}$	$\mathcal{F}(T_{\mathrm{e}^{2\pi\mathrm{i}bx}}) = \delta_b$
$T_{\sin(2\pi bx)} \in \mathcal{D}'_{\mathbb{C}}(\mathbb{R}) \quad b \in \mathbb{C}$	$\mathcal{F}(T_{\sin(2\pi bx)}) = \frac{1}{2\mathrm{i}}(\delta_b - \delta_{-b})$
$T_{\cos(2\pi bx)} \in \mathcal{D}'_{\mathbb{C}}(\mathbb{R}) \quad b \in \mathbb{C}$	$\mathcal{F}(T_{\cos(2\pi bx)}) = \frac{1}{2}(\delta_b + \delta_{-b})$
$T_{\sinh(2\pi bx)} \in \mathcal{D}'_{\mathbb{C}}(\mathbb{R}) \quad b \in \mathbb{C}$	$\mathcal{F}(T_{\sinh(2\pi bx)}) = \frac{1}{2}(\delta_{-\mathrm{i}b} - \delta_{\mathrm{i}b})$
$T_{\cosh(2\pi bx)} \in \mathcal{D}'_{\mathbb{C}}(\mathbb{R}) \quad b \in \mathbb{C}$	$\mathcal{F}(T_{\cosh(2\pi bx)}) = \frac{1}{2}(\delta_{\mathrm{i}b} + \delta_{-\mathrm{i}b})$
$H_{x_+^\lambda} \in \mathcal{S}'(\mathbb{R}) \quad \lambda \in \mathbb{C}$	$\mathcal{F}\left(\frac{H_{x_+^\lambda}}{\Gamma(\lambda+1)}\right) = \mathcal{F}(H_{\chi_+^\lambda})$ $= \frac{\mathrm{e}^{-\mathrm{i}(\lambda+1)\frac{\pi}{2}}}{(2\pi)^{\lambda+1}} H_{(\xi-\mathrm{i}0)^{-\lambda-1}}$

Distribuce	Fourierova transformace
$T_{x_+^n} \in \mathcal{S}'(\mathbb{R}) \quad n \in \mathbb{N}$	$\mathcal{F}(T_{x_+^n}) = \frac{n!}{(2\pi \mathrm{i})^{n+1}} H_{\xi^{-n-1}} + \frac{1}{2(-2\pi \mathrm{i})^n} D^n \delta$
$T_H \in \mathcal{S}'(\mathbb{R})$	$\mathcal{F}(T_H) = \frac{1}{2\pi \mathrm{i}} T_{\mathrm{p.v.}\frac{1}{\xi}} + \frac{1}{2}\delta$
$H_{x_-^\lambda} \in \mathcal{S}'(\mathbb{R}) \quad \lambda \in \mathbb{C}$	$\mathcal{F}\left(\frac{H_{x_-^\lambda}}{\Gamma(\lambda+1)}\right) = \mathcal{F}(H_{\chi_-^\lambda}) = \frac{\mathrm{e}^{\mathrm{i}(\lambda+1)\frac{\pi}{2}}}{(2\pi)^{\lambda+1}} H_{(\xi+\mathrm{i}0)^{-\lambda-1}}$
$H_{\|x\|^\lambda} \in \mathcal{S}'(\mathbb{R}) \quad \lambda \in \mathbb{C},\, -\lambda \notin \mathbb{Z}$	$\mathcal{F}(H_{\|x\|^\lambda}) = \frac{-2\Gamma(\lambda+1)}{(2\pi)^{\lambda+1}} \sin(\lambda\frac{\pi}{2}) H_{\|\xi\|^{-\lambda-1}}$
$T_{\|x\|} \in \mathcal{S}'(\mathbb{R})$	$\mathcal{F}(T_{\|x\|}) = \frac{-1}{2\pi^2} H_{\|\xi\|^{-2}} = \frac{-1}{2\pi^2} T_{\mathrm{f.p.}\frac{1}{\xi^2}}$
$H_{\|x\|^\lambda \operatorname{sign} x} \in \mathcal{S}'(\mathbb{R}) \quad \lambda \in \mathbb{C},\ \lambda \notin \mathbb{Z}$	$\mathcal{F}(H_{\|x\|^\lambda \operatorname{sign} x}) = \frac{-2\mathrm{i}\Gamma(\lambda+1)}{(2\pi)^{\lambda+1}} \cos(\lambda\frac{\pi}{2}) H_{\|\xi\|^{-\lambda-1} \operatorname{sign} \xi}$
$T_{\operatorname{sign} x} \in \mathcal{S}'(\mathbb{R})$,	$\mathcal{F}(T_{\operatorname{sign} x}) = \frac{1}{\mathrm{i}\pi} T_{\mathrm{p.v.}\frac{1}{x}}$
$H_{x^{-2n}} \in \mathcal{S}'(\mathbb{R}) \quad n \in \mathbb{N}$	$\mathcal{F}(H_{x^{-2n}}) = \frac{(-1)^n \pi (2\pi)^{2n-1}}{(2n-1)!} T_{\|\xi\|^{2n-1}}$
$H_{x^{-2}} = T_{\mathrm{f.p.}\frac{1}{x^2}} \in \mathcal{S}'(\mathbb{R})$	$\mathcal{F}(H_{x^{-2}}) = -2\pi^2 T_{\|\xi\|}$
$H_{x^{-2n+1}} \in \mathcal{S}'(\mathbb{R}) \quad n \in \mathbb{N}$	$\mathcal{F}(H_{x^{-2n+1}}) = \frac{(-1)^n \mathrm{i}\pi (2\pi)^{2n-2}}{(2n-2)!} T_{\|\xi\|^{2n-2} \operatorname{sign} \xi}$
$H_{x^{-1}} = T_{\mathrm{p.v.}\frac{1}{x}} \in \mathcal{S}'(\mathbb{R})$	$\mathcal{F}(H_{x^{-1}}) = -\mathrm{i}\pi T_{\operatorname{sign} \xi}$

Distribuce	Fourierova transformace
$H_{(x+\mathrm{i}0)^\lambda} \in \mathcal{S}'(\mathbb{R}) \quad \lambda \in \mathbb{C}$, $\lambda \notin \mathbb{Z}$	$\mathcal{F}(H_{(x+\mathrm{i}0)^\lambda}) = \frac{\mathrm{e}^{\mathrm{i}\lambda\frac{\pi}{2}}}{(2\pi)^\lambda\Gamma(-\lambda)} H_{\xi_+^{-\lambda-1}}$
$H_{(x-\mathrm{i}0)^\lambda} \in \mathcal{S}'(\mathbb{R}) \quad \lambda \in \mathbb{C}$, $\lambda \notin \mathbb{Z}$	$\mathcal{F}(H_{(x-\mathrm{i}0)^\lambda}) = \frac{\mathrm{e}^{-\mathrm{i}\lambda\frac{\pi}{2}}}{(2\pi)^\lambda\Gamma(-\lambda)} H_{\xi_-^{-\lambda-1}}$
$H_{(x+\mathrm{i}0)^{-k}} \in \mathcal{S}'(\mathbb{R}) \quad k \in \mathbb{N}$, $k = 2n$ nebo $k = 2n-1$	$\mathcal{F}(H_{(x+\mathrm{i}0)^{-2n}}) = \frac{(-1)^n(2\pi)^{2n}}{(2n-1)!} T_{\xi_+^{2n-1}}$ $\mathcal{F}(H_{(x+\mathrm{i}0)^{-2n+1}}) = \frac{(-1)^n\mathrm{i}(2\pi)^{2n-1}}{(2n-2)!} T_{\xi_-^{2n-2}}$
$H_{(x-\mathrm{i}0)^{-k}} \in \mathcal{S}'(\mathbb{R}) \quad k \in \mathbb{N}$, $k = 2n$ nebo $k = 2n-1$	$\mathcal{F}(H_{(x-\mathrm{i}0)^{-2n}}) = \frac{(-1)^n(2\pi)^{2n}}{(2n-1)!} T_{\xi_-^{2n-1}}$ $\mathcal{F}(H_{(x-\mathrm{i}0)^{-2n+1}}) = -\frac{(-1)^n\mathrm{i}(2\pi)^{2n-1}}{(2n-2)!} T_{\xi_-^{2n-2}}$
$H_{\lvert x\rvert^\lambda} \in \mathcal{S}'(\mathbb{R}^N) \quad \lambda \in \mathbb{C}$	$\mathcal{F}\left(\frac{H_{\lvert x\rvert^\lambda}}{\Gamma(\frac{\lambda+N}{2})}\right) = \frac{1}{\Gamma(-\frac{\lambda}{2})\pi^{\lambda+\frac{N}{2}}} H_{\lvert\xi\rvert^{-\lambda-N}}$