

Index

- $H(x) = \mathbf{1}_{[0,+\infty)}(x)$, 75
 $L^2(\mathbb{R}^n) \setminus M^1(\mathbb{R}^n)$ is a dense G_δ set of $L^2(\mathbb{R}^n)$, 134
 L_k , 176
 L_k^α , 178
 $M^1(\mathbb{R}^n)$, 124
 $M_{A,B,C}$, 14
 $Sp(n, \mathbb{R})$, 10
 $[X, Y]$, 9
 $\Lambda_{P,L,Q}$, 164
 $\mathcal{M}_{P,L,Q}^{\{m\}}$, 163
 $\Omega(u, v)$, 3
 $\Xi_{A,B,C}$, 10
 $\text{Ai}(x)$, 193
 $\mathbb{P}_{k;n}, \mathbb{P}_\alpha$, 160
 $\mathcal{A}(u, v)$, 7
 $\mathcal{M}_{P,L,Q}$, 162
 $\mathcal{W}(u, v)$, 3
 $M_{A,B,C}^{\{m\}}$, 15
 $\text{Op}_0(a)$, 28
 $\text{Op}_{\text{aw}}(a)$, 33
 $\text{Op}_{\text{w}}(a)$, 5
 $\{a, b\}$, 6
 ψ_0 , 126
 ψ_k, Ψ_α , 160
 $\text{shc } t = \frac{\sinh t}{t}$, 68
 $\sigma_{x,\xi}$, 7
 $\tau_{y,\eta}$, 20
trace +, 29
 $a \sharp b$, 6
 $m(B)$, 15
- Airy function, 193
ambiguity function, 7
anisotropic harmonic oscillator, 160
annihilation, 29
another normalization for the Wigner distribution, 207
anti-Wick quantization, 33
- Baire genericity, 121
box functions, 38
- composition formula, 6, 26
conjecture on anisotropic ellipsoids, 149
conjecture on anisotropic paraboloids, 149
convex cones, 114, 137
convex polygons, 143
corners, 113
counterexample to Flandrin conjecture, 87
creation, 29
- distribution kernel, 9
- ellipsoids in the phase space, 58
epigraph of a parabola, 77
- Fefferman–Phong inequality, 36
Feichtinger algebra, 124
Feldheim inequality, 177
Fourier tr. of Laguerre polynomials, 177
Fourier transform, 153
fundamental matrix, 29
- generalized Laguerre polynomials, 178
generating function, 10
generators of the metaplectic group, 17, 162, 163
generators of the symplectic group, 10, 14
Grossman–Royer operator, 7
- Hardy inequality, 30
Hardy operator, 179
harmonic oscillator, 160
Heaviside function, 75
Heisenberg uncertainty relations, 28
Hermite functions, 36, 160
hyperbolic convex sets, 87
hyperbolic regions, 97
- incomplete Gamma function, 208
index, 154
indicatrix of a disc, 45
indicatrix of a Euclidean ball, 53
inversion formula, 125

Laguerre polynomials, 36, 176

Mehler formula, 41, 174

metaplectic group, 17

modulation spaces, 124

non-negative quantization formulas, 31

ordinary quantization, 28

phase symmetry, 7

phase translation, 20

Poisson bracket, 6

quarter-plane, 87

reconstruction formula, 3

Segal formula, 9, 20

sharp Gårding inequality, 35

signature, 154

singular integrals, 179

symbols supported in a half-space, 146

symplectic covariance, 20

symplectic group, 10

symplectic reduction of quadratic forms, 58

the space $M^1(\mathbb{R}^n)$ is a dual space, 132

the space $M^1(\mathbb{R}^n)$ is an F_σ of $L^2(\mathbb{R}^n)$, 131

triangles, 139

weak versions of the Wigner distribution, 24

Weyl quantization, 5, 6, 156

Wigner distribution, 3