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	authors	Giorgia Tranquilli	title	Global normal forms and global properties in functionspaces for second order Shubin type operators		
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	doi	None	id	id26969137399505938		
	urls	https://openalex.org/W194460914		We investigate the reduction to global normal forms of second order Shubin(or G) type differential operators P(x;D) in functional spaces on Rn. We describe the isomorphism properties of normal form transformations, introduced by L. Hormander for the study of affine symplectic transformations acting on pseudodifferential operators, in spaces like the Schwartz class, the weighted Shubin-Sobolev spaces and the Gelfand-Shilov spaces. We prove that the operator P(x;D) and the normal form PNF(x;D) have the same		
	id	id7245145379400653303		regularity/solvability and spectral properties. We also study the stability of global properties of the normal forms under perturbations by zero order Shubin type		
	abstract			seudodifferential operators and, more generally, by operators acting on S(Rn) and admitting discrete representations. Finally, we study Cauchy problems on Rn globally in		
	versions			time for second order hyperbolic equations $P(x;D)+R(x;D)$, where $P(x;D)$ is a second or der self-adjoint globally elliptic Shubin pseudodifferential operator and $R(x;D)$ is a first order pseudodifferential operator.		
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