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Nota di contenuto	On the probabilistic Cauchy theory for nonlinear dispersive PDEs -- Endpoint results for Fourier integral operators on noncompact symmetric spaces -- Weak-type estimates for the metaplectic representation restricted to the shearing and dilation subgroup of SL(2,) -- On the Atomic Decomposition of Coorbit Spaces with Non-Integrable Kernel -- On the Purity and Entropy of Mixed Gaussian States -- On the continuity of -Wigner pseudodifferential operators -- Gabor expansions of signals: Computational aspects and open questions -- Lp continuity and microlocal properties for pseudodifferential operators.-Hyperbolic wavelet frames and multiresolution in the weighted Bergman spaces -- Infinite order pseudo-differential operators -- New progress on weighted Trudinger-Moser and Gagliardo-Nirenberg, and critical Hardy inequalities on

stratified groups -- Continuity properties of multilinear localization operators on modulation spaces -- Semi-continuous convolution estimates on weakly periodic Lebesgue spaces -- Almost Diagonalization of Pseudodifferential Operators.

Sommario/riassunto

The chapters in this volume are based on talks given at the inaugural Aspects of Time-Frequency Analysis conference held in Turin, Italy from July 5-7, 2017, which brought together experts in harmonic analysis and its applications. New connections between different but related areas were presented in the context of time-frequency analysis, encouraging future research and collaborations. Some of the topics covered include: • Abstract harmonic analysis, • Numerical harmonic analysis, • Sampling theory, • Gabor analysis, • Time-frequency analysis, • Mathematical signal processing, • Pseudodifferential operators, and • Applications of harmonic analysis to quantum mechanics. Landscapes of Time-Frequency Analysis will be of particular interest to researchers and advanced students working in time-frequency analysis and other related areas of harmonic analysis.