

τ -QUANTIZATION OF FEICHTINGER OPERATORS

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ABSTRACT. In the setting of Quantum Harmonic Analysis, we present the operator-analogue of the well-known Feichtinger algebra over \mathbb{R}^d , the Feichtinger operators. We investigate the τ -quantizations of such operators and show that many well-known concepts and results for functions in time-frequency have an operator-analogue in our setting, e.g. the class of Schwartz operators can be described as an intersection of weighted variants of the class of Feichtinger operators.

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