Time frequency analysis
in spaces with Hörmander metrics

STEVAN PILIPOVIĆ*
*University of Novi Sad

Short time Fourier transform (STFT) in $\mathcal{S}'(\mathbb{R}^{2n})$, $\mathbb{R}^{2n}$ is endowed with the Hörmander metric g_X, is analyzed and consequences on various classes of ΨDOs are given. Also (STFT) and frames over $\mathbb{R}^n$ with the Hörmander metric $(\mathbb{R}^n, g_x)$ are analyzed by the use of $Conf$- families

$$\varphi = \{\varphi_X, X \in \mathbb{R}^{2n} \text{or } \mathbb{R}^n\}.$$

The continuity properties of (STFT) on various spaces are also given.

This is a joint work with Bojan Prangoski from the University of Skopje