Asymptotic behavior of distributions and time-frequency analysis

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The idea of this talk is to make sublimation of the joint work of the authors in the last few years. The focus will be on the analysis of the asymptotic behavior of distributions in terms of different integral transforms. The short-time Fourier transform, directional STFT and Radon transform will be discussed in various test function and distribution spaces, and new kind of Abelian and Tauberian results connected to them will be presented. Also, the interest of this talk will be characterizations of asymptotic properties of Schwartz distributions by using Gabor frames.