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Inhomogeneous Shearlet Coorbit Spaces

We establish inhomogeneous coorbit spaces related to the continuous shearlet transform and weighted Lebesgue spaces $L_{p,v}$. For the wavelet setting, inhomogeneous coorbit spaces have been obtained by Fornasier, Rauhut and Ulrich. Our construction is based on a generalisation of this approach to the shearlet case. A major difficulty in our work is the integrability of the corresponding kernel function.