

Dualizable Shearlets

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Shearlet systems have been introduced as directional representation systems, which provide sparse approximations of piecewise smooth functions. Although their frame properties have been extensively studied, no closed and computable form of any dual frame is known except for band-limited shearlets.

In this talk, we introduce a new class of shearlet systems, consisting of compactly supported shearlets and allowing for computing an associated dual frame explicitly.