

Linear independence of compactly supported separable shearlets

Jackie Ma
Technische Universität Berlin
Department of Mathematics
Straße des 17. Juni 135, 10623 Berlin

Abstract

Shearlets are representation systems that can be used for many tasks driven by applications such as denoising, inpainting, image reconstruction, etc.

It is known that these shearlet systems can form a *frame*. The frame property is, however, fairly general and leaves room for many more restrictive properties such as the *Riesz basis* property or *linear independence*. In this talk we will discuss both properties, in fact, we will show that a large class of compactly supported shearlets are linearly independent.

This is joint work with Philipp Petersen.