

Spectral stability of symmetric spaces

Harold Donnelly
Purdue University

The concept of spectral stability for Riemannian manifolds was introduced by F. Xavier. He proved that the hyperbolic spaces of dimension more than three are spectrally stable. A proof will be presented that all symmetric spaces of noncompact type are spectrally stable. This proof relies upon the non-Euclidean Fourier analysis. Xavier's original approach was based upon the construction of certain convex functions.