1003-58-173 **Harold G. Donnelly*** (`hgd@math.purdue.edu`), 150 North University Street, West Lafayette, IN 47907. *Spectral stability of symmetric spaces.*

Let (M,g) be a complete Riemannian manifold.We say that g is spectrally stable if for any compactly supported and sufficiently small two tensor h,the Lapacian of g is unitarily equivalent to the Laplacian of g+h.The notion of spectral stability was introduced by F. Xavier,who showed the spectral stability for hyperbolic space of dimension at least four.The lecture will provide a proof of the spectral stability of any symmetric space of noncompact type. (Received August 18, 2004)