1011-58-20   **Harold G Donnelly*** (`hgd@math.purdue.edu`), Department of Mathematics, Purdue University, 150 North University Street, West Lafayette, IN 47907. *Compactness of Isospectral Potentials.*

The Schrodinger operator of a compact Riemannian manifold has pure point spectrum.Various criteria are given to guarantee the compactness of all smooth potentials whose associated Schrodinger operator is isospectral to a given reference operator.An example involving singular potentials suggests the sharpness of these results. (Received July 03, 2005)