
RELICH INEQUALITIES VIA HARDY INEQUALITIES ON MANIFOLDS AND GRAPHS

Yehuda PINCHOVER

Technion – Israel Institute of Technology, Israel, pincho@technion.ac.il

We establish weighted Rellich-type inequalities with best constants for Schrödinger operators defined either on noncompact Riemannian manifolds or graphs. The corresponding weights satisfy certain eikonal inequality involving Hardy-weights.

Based on joint works with M. Frass, and B. Devyver (2014), and M. Keller and F. Pogorzelski (2019).

Keywords: Agmon metric, Eikonal inequality, positive solutions.