

Eigenvalues of Schroedinger operators on metric trees

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Abstract: Metric trees form as a special class of quantum graphs. We will discuss the connection between the spectral properties of Schroedinger operators defined on these structures and their global geometry. In particular, we will focus on eigenvalue estimates which generalizes the well known Lieb-Thirring inequalities. This is a joint work with Tomas Ekholm and Rupert Frank.