Spectral analysis on graph-like spaces

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Abstrak

In this monograph, analyse Laplace-like operators on thin tubular structures ("graph-like spaces"), and their natural limits on metric graphs. In particular, explore norm resolvent convergence, convergence of the spectra and resonances. Since the underlying spaces in the thin radius limit change, and become singular in the limit, develop new tools such as norm convergence of operators acting in different Hilbert spaces, an extension of the concept of boundary triples to partial differential operators, and an abstract definition of resonances via boundary triples.