



Dr. Olaf Post

Convergence results for almost one-dimensional spaces

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Institut für Mathematik
Rudower Chaussee 25, Raum I.410
12489 Berlin

We consider a family of noncompact, thin manifolds converging to a metric graph. The thin manifold can either be a thin neighbourhood of the (embedded) quantum graph or be defined as a manifold without boundary (like the surface of a pipeline network approaching the metric graph). We will present convergence results of the associated Laplacians on functions and 1-forms, including norm resolvent convergence, convergence of the spectrum and convergence of resonances.

Kontakt:

Humboldt-Universität zu Berlin . Institut für Mathematik
SFB 647 . Unter den Linden 6 . 10099 Berlin
Tel. +49 30 2093 1804 . Fax. +49 30 2093 2727
sfb647@math.hu-berlin.de

www.raumzeitmaterie.de