

### **introduction to quantum graphs pdf**

Quantum Graphs I. Some Basic Structures Peter Kuchment Department of Mathematics Texas A& M University College Station, TX, USA 1 Introduction

We use the name "quantum graph" for a graph considered as a one-dimensional singular variety and equipped with a self-adjoint differential (in some cases pseudo-differential) operator (the "Hamiltonian").

### **Quantum Graphs I. Some Basic Structures**

In the case of quantum graphs and 1-D photonic crystals, the decomposition of  $\Sigma(H)$  into a finite number of asymptotic sequences is proved under additional commensurability conditions.

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Quantum graphs present many non-trivial mathematical challenges, which makes them dear to a mathematician's heart. Work on quantum graphs has brought together tools and intuition coming from graph theory, combinatorics, mathematical physics, PDEs, and spectral theory.

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The operator  $L$ , which is the so-called quantum graph laplacian on  $X$  (see the monograph [6] by Berkolaiko and Kuchment for an introduction and a review), represents the sought "effective operator ...

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Abstract: We describe some basic tools in the spectral theory of Schrödinger operator on metric graphs (also known as "quantum graph") by studying in detail some basic examples. The exposition is kept as elementary and accessible as possible.

### **[1603.07356] An elementary introduction to quantum graphs**

a gentle introduction to some of the ideas in quantum computing. The paper begins by motivating the central ideas of quantum mechanics and quantum computation with simple toy models. From there we move on to a formal presentation of the small fraction of (finite dimensional) quantum mechanics that we will need for basic quantum computation.

### **arXiv:0708.0261v1 [quant-ph] 2 Aug 2007**

1 Introduction The theory of NP-completeness was one of the first successful programs of complexity theory, a central field of theoretical computer science. In the domain of quantum computation, there is a direct analogue of NP called QMA. The theory of QMA-completeness has advanced much more slowly than the theory of NP-completeness.

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