## Approximations of quantum graphs by shrinking networks

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There is a longstanding problem how to understand the coupling in vertices of a quantum graph using an approximation by Laplacians on a family of appropriate "fat graphs". We review the background and describe known results in both the Neumann and Dirichlet setting. We also suggest a way how wider classes of vertex couplings can be obtained from squeezed Dirichlet networks and illustrate it on the simplest nontrivial example, a family of bent tubes giving a graph of one vertex and two edges, or a two-parameter family of generalized point interactions on the line.

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