



## SPECTRAL ASYMPTOTICS FOR QUANTUM GRAPHS

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If  $q$  is smooth on the edges of a finite metric graph with all edges of length 1, the eigenvalues of the Schrödinger operator  $-D^2 + q$  with standard vertex conditions have generalized asymptotic expansions to all orders. More explicit connections between the eigenvalues and the underlying combinatorial graph will also be described. This is joint work with V. Pivovarchik.