

Special values of spectral zeta functions of graphs and spaces

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In this talk I will discuss spectral zeta functions of graphs and their special values at integers. These values appear in a number of topics, for example the volumes of spheres. An asymptotic analysis will ultimately lead to a combinatorial interpretation, not involving any limits, of Euler's values of the Riemann zeta function and the corresponding values for Dirichlet L-functions. I will also make some remarks about special values of the zeta functions of metric graphs. Based on joint works with J. Jorgenson, L. Smajlović, F. Friedli, M. Pallich, and D. Müller.