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Ihara's Zeta-Function and the Spectra of Graphs.

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Session: 1. Analytic Number Theory

In the recent past graphs have been studied by their associated zeta-function. In the talk we investigate the Ihara zeta-function for a regular connected graph with respect to the eigenvalues of the adjacency matrix. We observe several analogues and differences to the classical Riemann zeta-function and its zero distribution.