Magnetic spectral decimation on two-point model graphs.

In a paper of Malozemov and Teplyaev, the authors show it is possible to use the technique of spectral decimation to compute the spectrum of probabilistic Laplacians on a sequence of symmetric self-similar graphs known as $M$-point model graphs. In this paper, these results are extended to magnetic Laplacians in the case where $M = 2$. An example is worked out in the case of graph approximations to the diamond fractal. (Received January 31, 2016)