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Forming graphs which are cospectral for the normalized Laplacian

We give a method to construct cospectral graphs for the normalized Laplacian. Namely, we can sometimes replace a small bipartite graph with another bipartite graph which is cospectral to it without changing the spectrum of the entire graph. When the bipartite graphs that are switched are regular we can show that the two resulting graphs are cospectral with respect to several other matrices. As an application we produce exponentially large families of cospectral graphs.