GRAPHS WITH ALL BUT TWO EIGENVALUES IN \([-2, 0]\)

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Abstract

The eigenvalues of a graph are those of its adjacency matrix. Recently, Cioabă, Haemers and Vermette characterized all graphs with all but two eigenvalues equal to \(-2\) and \(0\). In this article, we extend their result by characterizing explicitly all graphs with all but two eigenvalues in the interval \([-2, 0]\). Also, we determine among them those that are determined by their spectrum.
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