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Vladimir Nikiforov* (vnikifrv@memphis.edu). *The maximum spectral radius of C_4 -free graphs.*

Several results appeared recently about the maximum spectral radius of graphs not containing a $K(2,t)$ - the 2 by t complete bipartite graph. The case $K(2,2)$ - the 4-cycle - was studied in particular detail. The talk will outline the relation of these extremal problems to classical results and questions in graph theory. (Received February 10, 2008)