1038-05-221 Vladimir Nikiforov* (vnikifrv@memphis.edu). The maximum spectral radius of C4-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)