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Xinxian Zheng* (xinxian.zheng@uni-essen.de), Fachbereich Mathematik, Universitaet
Duisburg-Essen, Campus Essen, Universitaetsstr. 1, 45117 Essen, NRW, Germany.

Cohen-Macaulay graphs.

In this lecture we give a survey on Cohen-Macaulay graphs describing the work of Villarreal, Herzog, Hibi and myself.

The classification of all Cohen-Macaulay bipartite and chordal graphs is given. (Received January 18, 2006)