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Good edge labelings of graphs of average degree at most 3

An edge labeling of a graph is called good, if for every ordered pair of distinct vertices (u, v) there is at most one nondecreasing path from u to v . Araújo, Cohen, Giroire and Havet conjecture that every K_3 - and $K_{2,3}$ -free graph of average degree ≤ 3 has a good labeling. This talk reports on progress towards this conjecture. In particular, a proof is given for the special case when the girth is at least 5.