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On Graphs with Depression Three

Consider an edge ordering f of a graph G . A path for which f increases along its edge sequence is called an f -ascent, and a maximal f -ascent if it is not contained in a longer f -ascent. The depression of G is the least integer k such that every edge ordering has a maximal ascent of length at most k . I will discuss graphs with depression three and no adjacent vertices of degree three or more.