Minimum Bipartite-Saturated Graphs

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(joint work with Oleg Pikhurko)

A graph G is said to be F-saturated if G contains no copy of F as a subgraph, but for any edge e in the complement of G the graph $G + e$ does contain a copy of F. The minimum number of edges of a $K_{2,2}$-saturated graph of given order n was precisely determined by Ollmann. Here, we determine the asymptotic behavior for the minimum number of edges in a $K_{2,3}$-saturated graph.

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