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Saturated Subgraphs of Multipartite Graphs

Given graphs G and H , a subgraph J of G is H -saturated if H is not a subgraph of J , but the addition of any new edge from G to J completes a copy of H . In this talk we present results on the minimum size of K_t -saturated subgraphs of complete balanced multipartite graphs. These results provide a contrast to recent results about the maximum edge density of K_t -free subgraphs of complete multipartite graphs. This is joint research with Michael Ferrara, Michael Jacobson, and Florian Pfender.