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Young diagrams for (k, l) -colourings

A (k, l) -colouring of a graph G is a partition of its vertex set into k independent sets and l cliques (empty sets are allowed). We define the *colouring diagram* of G to be the Young diagram of all pairs (k, l) , such that G is not (k, l) -colourable. In this talk we present some characterizations for graphs with a given colouring diagram, as well as investigate connections between the colouring diagram and other graph parameters.