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Grundy Number and the Strong Product

A proper colouring is referred to as a Grundy colouring if every vertex has a neighbour from each of the colour classes lower than its own. The Grundy number of a graph is the maximum number of colours that can appear in such a colouring. In this talk, I will discuss bounds on the Grundy number of strong products of graphs, and classes of graph for which these bounds are exact. I will also discuss a bound on the Grundy number of the strong product of n paths of length 2, which generalizes for the strong product of n stars.