

Total Perfect Codes in Tensor Products of Graphs

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A total perfect code in a graph is a subset of the graph's vertices with the property that each vertex in the graph is adjacent to exactly one vertex in the subset. In this talk we will see that the tensor product of any number of simple graphs has a total perfect code if and only if each factor has a total perfect code. This is joint work with Ghidewon Abay-Asmerom and Richard Hammack.