

Almost perfect matchings in k -partite k -graphs

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The minimum co-degree threshold for a perfect matching in a k -graph with n vertices was determined by Rödl, Ruciński and Szemerédi for the case when $n \equiv 0 \pmod{k}$. Recently, Han resolved the remaining cases, establishing a conjecture of Rödl, Ruciński and Szemerédi. In this paper, we determine the minimum co-degree threshold for almost perfect matchings in k -partite k -graphs, answering a question of Rödl and Ruciński.