

## Perfect matchings in $r$ -graphs

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An  $r$ -graph is an  $r$ -regular graph where every odd set of vertices is connected by at least  $r$  edges to the rest of the graph. There are several open problems and conjectures on perfect matchings in  $r$ -graphs, including the generalized Berge-Fulkerson Conjecture and Seymour's exact conjecture. In this talk, we present research approaches and recent results on these problems and conjectures.