

## Conditional Strong Matching Preclusion of the Alternating Group Graph

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The strong matching preclusion number of a graph is the minimum number of vertices and edges whose deletion results in a graph that has neither perfect matchings nor almost- perfect matchings. Park and Ihm introduced the problem of strong matching preclusion under the condition that no isolated vertex is created as a result of faults. In this paper, we find the conditional strong matching preclusion number for the  $n$ -dimensional alternating group graph  $AG_n$ .

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