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Nash-stable coalition partition and potential functions in games with coalition structure.

Summary: This work proves the existence of a coalition structure that is both Nash-stable and strongly permutation-stable for classes of coalition partition games. Among them are games where player’s payoff are Aumann-Drze value or the weighted value. These results are obtained by adapting the definition of a potential function for coalition partition games.

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References:
[16] Gusev, V. V., The vertex cover game: Application to transport networks, Omega, 97, 102102 (2020)

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