

Title: Bottom Coalition Properties

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Abstract: There are economic environments such that for each group of agents, there exists a subgroup (bottom coalitions) that is mutually worst for each or for some of its members. When analyzing coalition formation in such economic environments, bottom coalitions could be used to exclude (partially) dominated coalitions from possibly being chosen. In this study, we consider hedonic coalition formation problems with bottom coalition properties. We explore the existence of core stable, individually stable, Pareto optimal, and popular coalition structures.