

**Title:** The Power of Symmetry for Nash Stable Additively Separable Hedonic Games

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**Abstract:** While there has been considerable interest in core stability for coalition formation games, there has been far less attention paid to the apparently less complex notion of Nash stability. In earlier work, we investigated heuristics for finding Nash stable partitions for Anchored Team Formation Games. In this work, we extend those heuristics to the more popular Additively Separable Hedonic Games. We discuss the differences between Nash stability for symmetric and asymmetric ASHG, and between ASHG and ATFG.