

# Mixed extensions and equilibria

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## **Abstract**

Various mixed extensions of strategic games with finitely many players are considered. We show that the existence of approximate Nash equilibrium in a mixed extension implies the existence of approximate Nash equilibrium in every less mixed extension. This result means that for strategic games with finitely many players it is enough to consider the case when each mixed strategy has finite support to exclude the existence of approximate Nash equilibrium in any other types of mixed extensions.