

# A new axiomatization of the Nash equilibrium

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## **Abstract**

A new axiomatization of the Nash equilibrium correspondence for  $n$ -person games based on independence of irrelevant strategies is given. Using a flexible general model, it is proved that the Nash equilibrium correspondence is the only solution to satisfy the axioms of non-emptiness, weak one-person rationality, independence of irrelevant strategies and converse independence of irrelevant strategies on the class of finite games which admit at least one Nash equilibrium. It is also shown that these axioms are logically independent.