The generality of the zero-one laws

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Abstract We prove game-theoretic generalizations of some well-known zero-one laws. Our proofs make the martingales behind the laws explicit, and our results illus-trate how martingale arguments can have implications going beyond measure-theoretic probability.

Keywords Game-theoretic probability \cdot Invariant event \cdot Martingale \cdot Permutable event \cdot Tail event \cdot Upper probability