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## **The Quantum Blackwell Theorem and Its Consequences**

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David Blackwell, in 1949, discovered a powerful link between game theory and statistical estimation theory by reformulating the notion of statistical sufficiency in game-theoretic terms. In this talk we will extend Blackwell's insight to the quantum setting, and show its deep consequences in the study of quantum nonlocality, quantum super-activation, and, more abstractly, the role of complete positivity in quantum theory.