Analysis Seminar

Title: Unique games and games based on groups

Speaker: Rupert Levene

Date: Tue 23rd September 2025 at 3:00PM

Location: E0.32 (beside Pi restaurant)

Abstract: We consider nonlocal 2-player games which are 'unique', in the sense that each player has a unique winning answer determined by a referee's question pair and the other player's answer. We show that such a game has a perfect vect-strategy (or quantum strategy) if and only if it has a perfect deterministic strategy, estimate some game values using C*-algebras and discuss games based on groups, which generalise the XOR games.

This is joint work with Vern Paulsen.

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