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We examine the relevance of quantum strategies for deterrence related game theory.

It was shown that in fundamental games like the Magic Square, quantum algorithms provide superior results to those of classical algorithms. To model more complex scenarios, we explore the extension of the Magic Square game to higher dimensions. We observe that quantum algorithms remain superior to classical game theory at higher dimensions in the Magic Square game.

Building on this observation on a basic and fundamental game, we investigate the extension of this result on more realistic games such as the Prisoner's Dilemma and how quantum strategies can help players coordinate their decisions to ensure an optimal decision for both in which they will not betray each other (i.e. they will be deterred)