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## JAMIE SIKORA, Perimeter Institute

Shadow Probabilities

Semidefinite optimization has proven to be a powerful tool in the study of quantum theory, with a wide array of applications. In this talk, I'll present a concept known as shadow prices which are quantities studied in mathematical economics, usually presented in the context of linear optimization. I'll discuss shadow prices in the context of semidefinite optimization and demonstrate how they appear in different areas of quantum theory, giving rise to shadow probabilities.