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Semidefinite programming, cone programming, and quantum state discrimination

Semidefinite programming has found many applications in the theory of quantum information. In this talk I will will give a brief introduction to semidefinite programming and its applications to the study of quantum information, and also discuss the more general setting of cone programming and its application to a problem relating to quantum state discrimination by spatially separated parties. The talk will include joint work with Somshubhro Bandyopadhyay, Alessandro Cosentino, Nathaniel Johnston, Vincent Russo, and Nengkun Yu.