

Talk: Plane spectrahedra

Speaker: Daniel Plaumann (Technical University of Dortmund)

Abstract: Plane spectrahedra are convex subsets of the real plane that can be represented by linear matrix inequalities. In this talk, I will start with a survey of known results with many examples. In the second half, I will focus on rationality questions and computational aspects. (Partly based on joint work with Mario Kummer and Simone Naldi)