Optimization hierarchies for distance-avoiding sets

Fernando de Oliveira Filho

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Abstract

In this talk I will discuss how the Lasserre hierarchy and the related k-point bound can be extended to locally independent graphs like the graph on the sphere S^{n-1} in which two points are adjacent if they are orthogonal. I will also discuss a copositive hierarchy for this problem and show convergence of all the hierarchies.

(Joint work with Bram Bekker, Olga Kuryatnikova, and Juan Vera.)