Positivity certificates for multivariate polynomials

Elias Tsigaridas[*1]

[1]Inria Paris – France

Abstract

We present mathematical, algorithmic, and complexity results on defining and computing SOS certificates of positivity for (multivariate) polynomials (in $n \geq 1$ variables) with rational coefficients, that are positive over $\mathbb{R}^n$.

Joint work(s) with Matias Bender, Chaoping Zhu, and Khazhgali Kozhasov.

[*]Speaker