Combinatorics and Probability Seminar

Polynomial computability of spectral radius of nonnegative tensors, uniform weighted hypergraphs, and related quantities

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Abstract: The aim of this talk is to show that several quantities as: the spectral radius of weakly irreducible tensors, spectral radius of uniform weighted hypergraphs, maximum of d-homogeneous polynomials with nonnegative coefficients in the unit ball of the d-Holder norm, are polynomially computable. This computability result is proven for a larger class of minimum of certain convex functions in R^n, which was considered by several authors. This is a joint work with Stephane Gaubert, INRIA and Centre de Mathematiques Appliquees (CMAP), Ecole polytechnique, IP Paris, France.

Note the unstandard time of 3PM rather than 2PM.