Nonnegative Polynomials, Moment Problems and Real Symmetric Tensor Decompositions

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The study of nonnegative polynomials is a basic problem in real algebraic geometry. Truncated moment problem is a classical question in real analysis. Symmetric tensor decompositions are of interest in many areas of applied mathematics. The main goal of this talk is to explain the tight connections between these three topics. I will also present some recent results.

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