

*Department of Mathematics,
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Math 278C - Optimization Seminar

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The core variety of a multi sequence: some examples

Abstract:

In joint work with G. Blekherman we proved that a truncated multisequence y of degree m has a representing measure in the Truncated Moment Problem if and only if its core variety $V(y)$ is nonempty, in which case $V(y)$ coincides with the union of the supports of all representing measures. In general, for a given numerical sequence y , it may be quite difficult to compute $V(y)$ or even to determine if it is nonempty. We illustrate some cases where we can compute $V(y)$ or can otherwise describe it concretely.

Host: Jiawang Nie

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