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Hyperbolicity cones of elementary symmetric polynomials are spectrahedral

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(Submitted on 13 Apr 2012)

We prove that the hyperbolicity cones of elementary symmetric polynomials are spectrahedral, i.e., they are slices of the cone of positive semidefinite matrices. The proof uses the matrix--tree theorem, an idea already present in Choe et al.

Comments: 7 pages, 2 figures

Optimization and Control (math.OC); Combinatorics (math.CO) Subjects:

Cite as: arXiv:1204.2997 [math.OC]

(or arXiv:1204.2997v1 [math.OC] for this version)

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