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Gabor Pataki* (gabor@unc.edu). *How do exponential size solutions arise in semidefinite programming?* Preliminary report.

It is known that in semidefinite programming (SDP) exponential size solutions may arise. We show that a suitable transformation reveals a certain hierarchy among the variables in any SDP that satisfies Slater's condition, in many cases yielding exponential size solutions. We also look at how exponential size solutions appear in practical problems. (Received September 14, 2020)