1124-14-70   **Grigoriy Blekherman**, **Torin Greenwood** and **Rainer Sinn*** (`sinn@math.gatech.edu`). *More on the Geometry of Positive Semidefinite Matrix Completion.* Preliminary report.

We will study two geometric invariants of the positive semidefinite matrix completion problem, the Gaussian rank and the maximum likelihood threshold of a graph. We will give interpretations of these invariants from the point of view of algebraic geometry and sums of squares and give the first example of a graph where these two invariants are different. (Received August 27, 2016)