1049-90-38   **Joao Gouveia*** (`jgouveia@math.washington.edu`), **Monique Laurent**, **Pablo A Parrilo** and **Rekha R Thomas**. *A new SDP approach to the Max-Cut problem.* Preliminary report.

Using sums-of-squares techniques we develop a new hierarchy of SDP relaxations for the Max-Cut problem, solving an open question by Laszlo Lovasz. (Received February 09, 2009)