1039-60-18 **Mihai Putinar*** (mputinar@math.ucsb.edu), Mathematics Department, University of California, Santa Barbara, CA 93106. *Multivariate moment matrices with zeros in their inverse.*

An analysis of the conditional independence of a two sets of random variables, with respect to another, is related to higher moments. Specifically we discuss the existence of zeros in the associated truncated moment matrices, as certificates for conditional independence. Based on joint work with Jean-Bernard Lasserre and John-William Helton. (Received February 11, 2008)