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Serkan Hosten* (serkan@sfsu.edu), San Francisco State University, Mathematics Department, 1600 Holloway Avenue, San Francisco, CA 94132. *Boundary stratification of tensors with nonnegative rank two*. Preliminary report.

We study the boundary of the semi-algebraic set of real tensors with nonnegative rank two and describe the "faces" of this set in the interior of the probability simplex. We also elaborate on the implications of this stratification for maximum likelihood estimation and the EM algorithm. (Received September 02, 2014)