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Luke Oeding* (oeding@auburn.edu), AL, and **Elina Robeva** (erobeva@mit.edu) and **Bernd Sturmfels** (bernd@mis.mpg.de). *Decomposing Tensors into Frames*.

A symmetric tensor of small rank decomposes into a configuration of only few vectors. We study the variety of tensors for which this configuration is a unit norm tight frame. (Received August 16, 2017)