

## DECOMPOSING TENSORS INTO FRAMES

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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. The aim of this work is to generalize orthogonal tensor decomposition by passing from an orthonormal basis to a tight frame. I will first speak about orthogonally decomposable tensors and how they are used and then I will say what we know about tight frame decomposable tensors. This is joint work with Bernd Sturmfels and Luke Oeding.