

Algebraic Methods for Tensor Data

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Tensor data appears in many applications. I will discuss algebraic methods for computations with tensor data and applications such as approximation of the tensor spectral norm and amplification of low rank tensor structure. The method uses colored Brauer diagrams, which are used for algebraic computations and in analyzing their computational complexity. This is joint work with Neriman Tokcan, Jonathan Gryak and Kayvan Najarian.