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**Roy Araiza\*** (raraiza@purdue.edu), **Adam Dor-On** and **Thomas Sinclair**. *Tensor Products and Categorical Constructions of Matrix Convex Sets*.

Beginning with the work of Choi-Effros, Wittstock, and Effros-Winkler it was realized that there was an intimate relationship between operator systems (self-adjoint unital subspaces of  $C^*$ -algebras) and compact matrix convex sets. Motivated by the work of Kavruk et al. in the development of the tensor product theory of operator systems, I will present the foundations for a theory of tensor products of matrix convex sets and relate this to the study of non-commutative Choquet theory. (Received January 15, 2020)