Tuesday, June 21, 2022

10:30am-12:30pm  **Dissertation Defense** -- Alana Huszar (UM) *Non-commutative Rank, Quivers, and Tensors* -- You will need to pre-register for the defense. Zoom: 928 0026 1523  Passcode: 0010 Virtual
Dissertation Defense
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Alana Huszar (UM)
Non-commutative Rank, Quivers, and Tensors

Fortin and Reutenauer defined the non-commutative rank for a matrix with entries that are linear functions. We will generalize this non-commutative rank to both the representation theory of quivers, and to tensor spaces. In particular, we will relate non-commutative rank to King’s criterion for sigma-stability of quiver representations, general Hom and Ext spaces studied by Schofield, and several notions of tensor rank.

Alana’s advisor is Harm Derksen.