Staggered sheaves were first defined by Achar in 2009 as a generalization of the perverse coherent sheaves of Bezrukavnikov and Deligne. In 2010, Treumann described a way to define these objects for toric varieties. Then, in a joint paper appearing in 2012, Achar and Treumann defined a concept of purity for staggered sheaves similar to Deligne’s for perverse sheaves. They further used their purity results to give a basis in $K$-theory for smooth toric varieties which exhibits a particular positivity condition. Recently, William Graham and I have been exploring this basis further, and the results of our project will be the focus of my talk. (Received July 28, 2014)