1155-16-580 **Robert W Muth*** (rmuth@washjeff.edu), Washington & Jefferson College, 60 S Lincoln St, Washington, PA 15301. *Superalgebra deformations of Schur algebras and related categories.* Preliminary report.

Given a superalgebra A, one may construct certain A-deformations of Schur algebras and related diagrammatic categories. I will discuss the connection between these objects and some structural results regarding bases and double centralizer properties. These deformations are motivated by some conjectures in the block theory of finite groups and Schur algebras, as a number of important objects arise in this way; for instance, RoCK blocks of Hecke algebras were shown by Evseev and Kleshchev to be Morita equivalent to zigzag-deformations of Schur algebras. This talk describes joint work with Alexander Kleshchev, as well as work with Nicholas Davidson, Jonathan Kujawa, and Jieru Zhu. (Received January 21, 2020)