1171-16-84 **Alexander H Sistko*** (`asistko01@manhattan.edu`) and **Jaiung Jun**. *Nice $\mathbb{F}_1$-representations of quivers.* Preliminary report.

To any quiver Q we can associate the category $\mathrm{Rep}(Q, \mathbb{F}_1)$ of representations over the field with one element. This category acts (in some ways) as a combinatorial degeneration of $\mathrm{Rep}(Q, k)$, where k is a field. In this talk, we discuss recent developments in the study of $\mathbb{F}_1$-representations of quivers. In particular, we introduce the class of nice $\mathbb{F}_1$-representations and discuss their significance for quiver Grassmannians. We also discuss the consequences of our work for the Ringel-Hall algebra of $\mathrm{Rep}(Q, \mathbb{F}_1)$. (Received August 08, 2021)