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Manhattan College Pkwy, Riverdale, NY 10471. *On quiver representations over  $\mathbb{F}_1$ .*

To any quiver, we can associate its category of finite-dimensional (nilpotent) representations over the field with one element  $\mathbb{F}_1$ . This category shares many basic properties with its analog over a field: in particular, a version of the Krull-Schmidt Theorem is satisfied. Inspired by the classical Tame-Wild Dichotomy for finite-dimensional algebras, we discuss a stratification of quivers based on the growth of their indecomposable  $\mathbb{F}_1$ -representations. In particular, we classify all quivers of bounded representation type over  $\mathbb{F}_1$  and provide a functorial interpretation for unbounded quivers. As a consequence, we develop a general framework for interpreting  $\mathbb{F}_1$ -representations as certain quiver maps, which allows for a more combinatorial description of the Ringel-Hall algebras associated to these categories. (Received January 06, 2021)