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Robert Laugwitz*, Department of Mathematics, Rutgers University, 110 Frelinghuysen Rd., Piscataway, NJ 08854-8, and **Vanessa Miemietz**. *2-Representation Theory of p -DG 2-Categories*. Preliminary report.

This talk is a report on joint work in progress with V. Miemietz (UEA). Cell 2-representations for k -linear 2-categories with certain finiteness conditions were defined and studied in a series of papers by Mazorchuk–Miemietz and were inspired by Kazhdan–Lusztig cell modules for Hecke algebras. We adapt the construction of these 2-cell representations to a p -DG enriched setting. This links to the categorification of small quantum at roots of unity by Elias–Qi which uses techniques from Hopfological algebra developed by Khovanov–Qi. (Received August 26, 2016)