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Enriched Brown representability for the dual

Abstract: This is joint work with G. Biedermann. Consider a closed symmetric monoidal model for the category of spectra. Given a small functor F from spectra to spectra preserving homotopy pullbacks and products up to homotopy, we prove that this functor is naturally weakly equivalent to a representable functor, i.e., there exists a spectrum Y such that for every spectrum E the value $F(E)$ is equivalent to the mapping spectrum $\text{map}(Y, E)$. This is an enriched version of the Brown representability for the dual proved by A. Neeman.