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Completed power operations for Morava E -theory.

Morava E -theory is an important cohomology theory in chromatic homotopy theory. Using work of Ando, Hopkins, and Strickland, Rezk described the algebraic structure found in the homotopy of $K(n)$ -local commutative E -algebras via a monad on E_* -modules that encodes all power operations. However, the construction does not see that the homotopy of a $K(n)$ -local spectrum is L -complete (in the sense of Greenlees-May and Hovey-Strickland). We improve the construction to a monad on L -complete E_* -modules, and discuss some applications. (Received September 16, 2013)