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Towards the η -periodic motivic sphere. Preliminary report.

In motivic homotopy theory, the Hopf map η is non-nilpotent, supplying a first example of exotic behavior in the homotopy theory of smooth schemes. We study the η -periodic (or η -inverted) motivic sphere spectrum via the slice spectral sequence and (co)operations for “very effective” Hermitian K -theory. (Received August 04, 2018)