

Algebraic K-Theory Seminar

The Frobenius in higher algebra

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Abstract: In classical algebra, the Frobenius provides a natural endomorphism of every ring in which $p \neq 0$; this determines an action of the circle on the category of F_p algebras. In higher algebra, one can do away with the characteristic p assumption and define a Frobenius map for every E-infinity ring spectrum. In this talk, I will explain the analog of the circle action. The construction of the action features equivariant homotopy theory and a calculation of a non-group-complete variant of the K theory of F_p .

Wednesday, October 24 at 3:00 PM in 1227 SEO