Séminaire de géométrie algébrique de Rennes¹

Exposé du jeudi 12 novembre 2009

SLICE OF S¹-SPECTRA

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Résumé : Voevodsky has defined a functorial tower in the motivic stable homotopy category of *T*-spectra, which adds « weight» information to the usual Postnikov tower of classical spectra. One main results about this motivic Postnikov tower, following from work of Voevodsky, Pelaez and myself, is that the layers have a natural structure of motives; this being a motivic analog of the classical result that the layers in the Postnikov tower are Eilenberg-Maclane spectra of the homotopy groups of the given spectrum.

There is an intermediate step between motivic spaces and motivic T-spectra, namely, motivic S^1 -spectra. The motivic Postnikov tower exists in this setting as well, but the layers are not in general motives. We will present some counter-examples and discuss some positive results about the layers of a T-loop spectrum.

¹Les jeudis matin, de 10 h 30 à 11 h 30, salle 004, IRMAR (bâtiment 22), Université de Rennes 1, Campus de Beaulieu