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Motives of spaces

Waldhausen's ringspectrum $A(*)$ is an augmented S-algebra, and (at least, over the rationals) the derived tensor product $S \otimes^L_A S$ (essentially, Tate's homology of A as a local ring with residue field S) is the Hopf algebra dual to the enveloping algebra of a free graded Lie algebra. This has interesting connections with the Deligne–Goncharov motivic group for the category of mixed Tate motives over the integers, work of B. Williams on bivariant A-theory, and work of Baker and Richter on quasisymmetric functions.