

LAWSON HOMOLOGY: QUESTIONS AND APPLICATIONS

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Abstract:

The space of cycles may be given a structure of topological group, or a sheaf in some Grothendieck topology. Lawson homology is defined as the homotopy group of the space of cycles. It can be seen as the semi-topological counterpart of higher Chow groups or motivic homology.

In the first part, we will give an brief introduction to Lawson homology and describe some questions about them.

In the second part, we will discuss applications of Lawson homology to the study of coniveau filtration and certain torsion algebraic cycle classes.