

STABLE COHOMOLOGY OF LOCAL MAPS

L. FERRARO, M. GHEIBI, N. PACKAUSKAS, J. POLLITZ

ABSTRACT. A local map of commutative rings $R \rightarrow S$ is called Gorenstein if its (derived) fiber is Gorenstein as a DG-algebra. The goal of this project is to develop the theory of stable cohomology for such maps.

This project is ongoing work that started in Fall 2021. We currently have some preliminary results in the relative setting that are analogs of known results in the absolute case. This is joint work with Luigi Ferraro (Texas Tech), Mohsen Gheibi (Florida A& M) and Josh Pollitz (University of Utah). We hope to develop these results and have an eye to an open question of Avramov.