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Stable Homology of Classical Groups

I'll discuss some new results with Nathalie Wahl on the stable range and stable values of the homology of classical groups (general linear, symplectic, and orthogonal).

In particular, we recover and extend Quillen's 'lost proof' of slope-1 homology stability, which leverages the vanishing of the coinvariants of the Steinberg module and its relative counterpart.

We also study the (lack of) p -torsion in the stable homology of classical groups over a finite field of characteristic p .