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On a generalisation of Tate cohomology.

Tate cohomology for finite groups combines group cohomology and group homology in a particular manner. It has been generalised from finite groups to all groups by several authors using different constructions. Therefore, a uniform theory is needed explaining why their approaches all lead to the same conclusions. The first part of the talk consists of a rough sketch of such a uniform and general theory. Settings are highlighted to which this theory applies and two fundamental properties of the resulting generalisation of Tate cohomology are stated. The second part of the talk delves into relevant constructions underlying the above mentioned theory and provides proof sketches for the above mentioned two fundamental properties.