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Homological invariants and capability of infinite groups of nilpotency class two. Preliminary report.

Let \mathcal{R} be the class of infinite groups of nilpotency class two. Using their classification and non-abelian tensor squares, we determine certain homological invariants such as the Schur multiplier for the 2-generator groups in \mathcal{R} and we characterize the capable groups among them. (Received August 09, 2005)