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A. Azimifard, E. Samei and N. Spronk* (nspronk@uwaterloo.ca), Department of Pure Math, 200 University Ave W, Waterloo, ON N2L 3G1, Canada. *Amenability properties of centres of group algebras.*

Let G be a locally compact group, and $ZL^1(G)$ be the centre of its group algebra. We show that when G is compact $ZL^1(G)$ is not amenable when G is either nonabelian and connected, or is a product of infinitely many finite nonabelian groups. We also, study, for some non-compact groups G , some conditions which imply amenability and hyper-Tauberian property, for $ZL^1(G)$.

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