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On pro-p analogues of limit groups via extensions of centralizers

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(Submitted on 12 Jul 2011)

We begin a study of a pro-p analogue of limit groups via extensions of centralizers and call $\mathcal{L}$ this new class of pro-p groups. We show that the pro-p groups of $\mathcal{L}$ have finite cohomological dimension, type FP_{∞} and non-positive Euler characteristic. Among the group theoretic properties it is proved that they are free-by-(torsion-free poly -procyclic) and if non-abelian do not have a finitely generated non-trivial normal subgroup of infinite index. Furthermore it is shown that every 2 generated pro-p group in the class $\mathcal{L}$ is either free pro-p or abelian.

Comments:	This is a correted version of the paper published in Math. Z. 267 (2011), no. 1-2, 109-128. The difference is Section 4, where we show that the proof of Theorem 4.1 of the published version proves that a pro-p limit group is free-by-(torsion free polyprocyclic). It does not however proves that a pro-p limit group is free-by-(torsion free finitely generated nilpotent)
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