

## Baer like theorems for Profinite groups

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**Abstract:** A classical theorem of Baer states that if  $G/Z_n(G)$  is finite, then  $\gamma_{(n+1)}(G)$  is finite. We generalize this result to Profinite groups and consider different series other than  $Z_n(G)$  and  $\gamma_{(n+1)}(G)$ .