

Split Sequences and Homomorphic Expansions

December-09-08
12:09 PM

G a group, $H \triangleleft G$, H Abelian
 $1 \rightarrow H \rightarrow G \rightarrow G/H \rightarrow 1$

Claim This sequence splits iff there is
a "homomorphic expansion"

$$G \rightarrow \text{gr}(1 \subset H \subset G)$$