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Nota di contenuto	Conventions -- Universal central extensions. Central trick -- Degenerate sums. The extension r : -- The action $\hat{A}d$. Structure of g^*Z , g^*R -- Admissible lattices and the category LV . $\mathbb{A}^1$ -connected components -- The G -module $\ker \mathbb{A}^1$ -- G -invariant $[p]$ -structures -- The extension $\mathbb{A}^1 : G^* \rightarrow G$ -- Extensions of G by a G -module -- The hochschild groups -- The existence of $\mathbb{A}^1 : G^* \rightarrow G$ -- Relations in the open cell -- Representatives in G^* of the Weyl group -- The theorem of generators and relations and its consequences -- The group functor G^* .