

Set Theory

Questions and Answers

... has a distinguished object \mathbb{I} , called the identity object, such that $\text{id}_{\mathbb{I}} = \text{id}$. Then in C is made sense of "associative algebra objects", and given an associative algebra $A = (\cdot)$ in C , we have $[A] = \text{alg} - \text{obj}$, where this is short-hand for $[A] = (\cdot) = \{\cdot, \text{id}\}$. So we can make sense of the expression "Lie algebras in C " and $\text{ASSOC}_C =$ "associative algebras in C ", and we have $\text{Forget} : \text{ASSOC}_C \rightarrow \text{LIE}_C$.

The forgetful functor $\text{Forget} : \text{ASSOC}_C \rightarrow \text{LIE}_C$ has a left adjoint $U : \text{LIE}_C \rightarrow \text{ASSOC}_C$. If C is a monoidal category, then every Lie algebra is thence well-defined in terms of the monoidal structure.

one can ask whether Forget has a left adjoint $U : \text{LIE}_{\mathcal{C}} \rightarrow \text{ASSOC}_{\mathcal{C}}$. If \mathcal{C} is a suitable direct sum, then the answer is yes: the tensor algebra is thence well-defined in the quotient as you normally would do, being careful to write everything in terms of morphisms rather than elements. In particular, if $g \in \text{LIE}_{\mathcal{C}}$, then $Ug \in \text{ASSOC}_{\mathcal{C}}$ as respects to the property that there is a Lie algebra homomorphism in $\text{LIE}_{\mathcal{C}}$.

to say that \mathfrak{g} is **representable** if the map $\mathfrak{g} \rightarrow U\mathfrak{g}$ is a monomorphism in $\mathbf{LIE}_{\mathbb{C}}$. Given any associative algebra A and a monomorphism $\mathfrak{g} \rightarrow A$, then $\mathfrak{g} \rightarrow U\mathfrak{g}$ is injective. This is the condition that \mathfrak{g} has some faithful representation. The statement that "Every Lie algebra is representable" is normally known as the Poincaré-Birkhoff-Witt theorem.

important point is that the usual proof — the one that Birkoff and Witt gave — requires picking a vector-space basis, and so it works only with a category of \mathbb{K} vector spaces for \mathbb{K} a field, or more generally when \mathcal{C} is the category of modules over a commutative ring and \mathfrak{g} is a free R -module, or actually the proof can be made to work for any Dedekind domains R . But in many abelian categories of interest this approach fails. So you need other proofs. Provided that \mathcal{C} is "over \mathbb{Q} " (hom sets are \mathbb{Q} -vector spaces) that works constructively with no other restrictions on \mathcal{C} is available in

41-57. After Math. Soc., Providence, RI, 1999. MR1701597.

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Abstract

Group Theory Questions George Duckett

DP Hallahan



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"The" Athenaeum ,1878 **The Genealogical Magazine** ,1899 **The Athenaeum** James Silk Buckingham,John Sterling,Frederick Denison Maurice,Henry Stebbing,Charles Wentworth Dilke,Thomas Kibble Hervey,William Hepworth Dixon,Norman Maccoll,Vernon Horace Rendall,John Middleton Murry,1884 **Athenaeum and Literary Chronicle** ,1874

Notes and Queries: a Medium of Inter-communication for Literary Men, Artists, Antiquaries, Genealogists, Etc ,1887

The English Historical Review ,1888 The Garden ,1879 **Gundreda de Warenne; final and conclusive evidence, ed. by sir G.F. Duckett** Gundreda (countess of Surrey.),1900 National Union Catalog ,1970 Includes entries for maps and atlases

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Medicus ,2000 *Health planning reports subject index* United States. Health Resources Administration,1979 *The Athenæum* ,1874

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