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Title:	Lie dimension subrings
Authors:	Bartholdi, L. (/jspui/browse?type=author&value=Bartholdi%2C+L.) Passi, I.B.S. (/jspui/browse?type=author&value=Passi%2C+I.B.S.)
Keywords:	Lie rings dimension problem simplicial objects enveloping algebras
Issue Date:	2015
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Citation:	International Journal of Algebra and Computation, 25(8)
Abstract:	We compare, for L a Lie ring over the integers, its lower central series $(\gamma n(L))n \geq 1$ and its dimension series defined by $\delta n(L) := L \cap \varpi n(L)$ in the universal enveloping algebra of L. We show that $\gamma n(L) = \delta n(L)$ for all $n \leq 3$, but give an example showing that they may differ if $n=4$. We introduce simplicial methods to describe these results, and to serve as a possible tool for further study of the dimension series.
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