

عنوان مقاله:

On the dimension of the product $[L_2, L_2, L_1]$ in free Lie algebras

محل انتشار:

فصلنامه تئوری گروهی، دوره 7، شماره 2 (سال: 1397)

تعداد صفحات اصل مقاله: 6

نویسنده:

Nil Mansuroğlu - Ahi Evran University

خلاصه مقاله:

Let L be a free Lie algebra of rank ≥ 2 over a field F and let L_n denote the degree n homogeneous component of L . By using the dimensions of the corresponding homogeneous and fine homogeneous components of the second derived ideal of free centre-by-metabelian Lie algebra over a field F , we determine the dimension of $[L_2, L_2, L_1]$. Moreover, by this method, we show that the dimension of $[L_2, L_2, L_1]$ over a field of characteristic p is different from the dimension over a field of characteristic other than p .

کلمات کلیدی:

Free Lie algebra, homogeneous and fine homogeneous components, free centre-by-metabelian Lie algebra, second derived ideal

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1194978>

