

代数宿題9

2014-12-12

1. Let L be the Lie algebra whose vector space is \mathbb{C}^3 , with bracket defined by the cross product: $[\hat{i}, \hat{j}] = \hat{k}$, etc. Show that L is isomorphic to $\mathfrak{sl}_2(\mathbb{C})$, the Lie algebra of 2×2 traceless matrices with bracket $[A, B] = AB - BA$.

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