论文

ON SUBALGEBRAS OF CHEVALLEY ALGEBRAS CONCERNING SUBFIELDS

ZHA Jianguo

Department of Applied Mathematics, Tongji University, Shanghai 200092, China

收稿日期 修回日期 网络版发布日期 接受日期

摘要 For any field F of characteristic zero,by g(F) we denote Chevalley algebras of the take of A-G, which are classical simple Lie algebras associated with Cartan matrices. Let X be an algebraically closed field of characteristic zero and k any subfield of K. We attempt to prove a conjugacy theorem: Viewed as Lie algebras over k,any k-subalgebras of g(K),which are isomorphic to g(k), are conjugate under automorphisms of g(X). In the present paper we have proved that the conjugacy theorem is true for Chevalley algebras of the types of A., B2, Cd, E6 and G2.

关键词 <u>Semi-simple Lie algebras, subalgebras</u>

分类号

ON SUBALGEBRAS OF CHEVALLEY ALGEBRAS CONCERNING SUBFIELDS

ZHA Jianguo

Department of Applied Mathematics, Tongji University, Shanghai 200092, China

Abstract For any field F of characteristic zero, by g(F) we denote Chevalley algebras of the take of A-G, which are classical simple Lie algebras associated with Cartan matrices. Let X be an algebraically closed field of characteristic zero and k any subfield of K. We attempt to prove a conjugacy theorem: Viewed as Lie algebras over k, any k-subalgebras of g(K), which are isomorphic to g(k), are conjugate under automorphisms of g(X). In the present paper we have proved that the conjugacy theorem is true for Chevalley algebras of the types of A., B2, Cd, E6 and G2.

Key words Semi-simple Lie algebras subalgebras

DOI:

通讯作者

	扩展功能
	本文信息
	Supporting info
	▶ <u>PDF(</u> 0KB)
	▶ [<u>HTML全文]</u> (0KB)
	▶ <u>参考文献</u>
	服务与反馈
	▶ 把本文推荐给朋友
l	▶ <u>加入我的书架</u>
e	▶ <u>加入引用管理器</u>
	▶ <u>复制索引</u>
	▶ <u>Email Alert</u>
	▶ <u>文章反馈</u>
	▶ <u>浏览反馈信息</u>
	相关信息
	▶ <u>本刊中 包含 "Semi-simple Lie</u>
	algebras, subalgebras"的相关文章
	▶本文作者相关文章
	• <u>ZHA Jianguo</u>