ISOMORPHISMS BETWEEN GENERALIZED CARTAN TYPE $W$ LIE ALGEBRAS IN CHARACTERISTIC 0

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ABSTRACT. In this paper, we determine when two simple generalized Cartan type $W$ Lie algebras $W_d(A, T, \varphi)$ are isomorphic, and discuss the relationship between the Jacobian conjecture and the generalized Cartan type $W$ Lie algebras.