

Lie triple systems

AHMAD MOHAMMED ALGHAMDI

UMM AL-QURA UNIVERSITY: MAKKAH, SAUDI ARABIA

A joint work with Dr. Amir Baklouti

THE ABSTRACT...

In this work, we give a new characterization of semisimple quadratic Lie triple systems. We introduce the notion of the operator of Casimir of a quadratic Lie triple system. We show that a quadratic Lie triple systems is semisimple if and only if its operator of Casimir is invertible. This is a joint work with Dr. Amir Baklouti.