A CLASS OF NILPOTENT EVOLUTION ALGEBRAS

Bakhrom Omirov
omirovb@mail.ru
National University of Uzbekistan

Recently, by A. Elduque and A. Labra a new technique and a type of an evolution algebra are introduced. Several nilpotent evolution algebras defined in terms of bilinear forms and symmetric endomorphisms are constructed. The technique then used for the classification of the nilpotent evolution algebras up to dimension five. In this talk we discuss about this technique for high dimensional evolution algebras and we show that, except the cases considered by Elduque and Labra, this construction of nilpotent evolution algebras does not give all possible nilpotent evolution algebras.