

1154-17-1001

**Abror Khakimovich Khudoyberdiyev\*** (khabror@mail.ru), National University of Uzbekistan, Olmazor region Talabalar street, 4, 100174, Tashkent, Uzbekistan. *On nilpotent and solvable Leibniz superalgebras.*

Lie superalgebras have been studied as the fundamental algebraic structures behind several areas of mathematical physics in 1970s. The problem of the description of nilpotent Lie superalgebras with maximal index of nilpotency have been studied in 2004 by Gómez J.R., Khakimdjano Yu., Navarro R.M. Leibniz superalgebras are generalizations of the Leibniz algebras, they naturally also generalize Lie superalgebras. Many works have been devoted to the description of nilpotent Leibniz superalgebras. In particular, the classification of nilpotent  $n+m$ -dimensional Leibniz superalgebras with maximal nilindex and with nilindex  $n+m$  is obtained. It should be noted that there is a method of description of solvable Leibniz algebras using their nilradicals. We apply this method for the description of solvable Leibniz superalgebras. In this talk we are going to present results about the description of solvable Leibniz superalgebras such that nilradical is the Lie superalgebra with maximal index of nilpotency. (Received September 12, 2019)