ISOTOPES OF LOOPS

W.B.Vasantha Kandasamy and S.V.Singh

In this paper we study the isotopes of a new class of loops of even order in which square of each element is identity. We give the method of constructing composition table for principal isotopes from the composition table of the original loops. We find out the operational rule for this new class of loops, we list out all the cases when the principal isotopes of $L_n(m)$ are commutative. Finally we prove the loops $L_n(m)$ are not G-loops.