A GALOIS THEORY FOR THE FIELD EXTENSION $K((X))/K$

Dr. Asim Naseem, Angel Popescu[1], Nicolae Popescu[2]
(GC University Lahore, Pakistan., Lahore)

Let K be a field of characteristic 0, which is algebraically closed to radicals. Let $F = K((X))$ be the valued field of Laurent power series and let $G = Aut(F/K)$. We prove that there is a one-to-one and onto correspondence between the set of all finite subgroups of G and the set of all coalgebraic subextensions of F/K. Some other auxiliary results are given.