1145-05-1496 **Tian-Xiao He*** (`the@iwu.edu`), Department of Mathematics, P. O. Box 2900, Bloomington, IL 61702. *On Sequence Characterization of Riordan Arrays.*

Abstract

We present the A-sequence characterization of Riordan arrays including the Riordan arrays with B-sequences and Pascal like matrices. The applications of sequence characterization to some centralizers of the Riordan group and some polynomial matrices are given. The subgroups characterized by A-sequences are studied. A combinatorial explanation of A-sequence characterization is also presented. (Received September 22, 2018)