

Some Algebraic Structure of the Riordan Group

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In this presentation we highlight some of the algebraic properties of the Riordan group. We start by defining the Riordan group and showing how the group operation is performed. We present some subgroups of the Riordan group. Then, we present some properties connecting similar Riordan matrices and pseudo-involutions in the Riordan group. We conclude by proving that the power-Bell subgroup is indeed a subgroup of the Riordan group.

Keywords: Riordan group, pseudo-involutions, subgroup, Riordan matrix