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**Abstract**

In the present article, we first obtain Riordan array expressions for the right half of the Pascal rhombus and the left-bounded rhombus. Then, a combinatorial interpretation based on the 2-generalized Motzkin paths is given for these arrays. Moreover, using the  $k$ -generalized Motzkin paths, we introduce the concept of  $k$ -generalized Pascal rhombus and left-bounded rhombus. Finally, explicit formulas for the generic elements and row sums of the  $k$ -generalized Pascal rhombus and left-bounded rhombus are obtained in terms of  $k$ -Bonacci numbers.