

# Classification of Generalized Polygroups

Gholam Reza Rezaei

(joint work with R.A. Borzooei)

*University of Sistan and Baluchistan, Zahedan  
Iran*

In this note, first by considering the notion of polygroup, we characterize the polygroups of order 3. Then we define the notion of generalized polygroup which is generalization of generalized group and polygroup, and we state and prove some related theorems. Finally, we characterize the generalized polygroups of order 3 up to isomorphic.