

## The continuity of inversion in topological generalized group <sup>1</sup>

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### Abstract

In this paper, continuity of inversion in paratopological generalized group are studied. Let  $G$  be a topologically periodic paratopological generalized group. It is shown that the inversion  $i : x \rightarrow x^{-1}$  is continuous provided  $G$  is regular, locally compact(countably compact), and every subset of  $G_e$  is nowhere dense in  $G_e$ (with subspace topology), if it is nowhere dense in  $G$ .

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**Key words and phrases:** paratopological generalized group, topological generalized group, nowhere dense subset.

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