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$p$ -Banach algebras with generalized involution and  $C^*$ -algebra structure

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**Abstract:** In this paper, we consider  $p$ -Banach algebras endowed with a generalized involution. We show that various  $C^*$ -like conditions force the algebra to be  $C^*$ -algebra under an equivalent norm.

**Key Words:**  $p$ -Banach algebras, generalized involution, involutive anti-morphism,  $C^*$ -algebra.



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