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博士论坛

(∈，∈∨q)-模糊正规化子与(∈，∈∨q)-模糊商子群

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(∈，∈∨q)-Fuzzy Normalizer and (∈，∈∨q)-Fuzzy Quotient Subgroup

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- 摘要
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摘要 在(∈，∈∨q)-模糊子群的基础上,引入了(∈，∈∨q)-模糊正规化子与(∈，∈∨q)-模糊中心化子的概念,并讨论了它们的一些性质.同时,给出了(∈，∈∨q)-模糊商群与(∈，∈∨q)-模糊商子群的定义,建立了(∈，∈∨q)-模糊商群的同构定理.

关键词: (&isin &isin &or q)-子群 (&isin &isin &or q)-模糊正规子群 (&isin &isin &or q)-模糊正规化子 (&isin &isin &or q)-模糊中心化子 (&isin &isin &or q)-模糊商子群

Abstract: Based on the concept of (∈，∈∨q)-fuzzy subgroup introduced by S.K.Bhakat in 1992,the notions of (∈，∈∨q)- fuzzy normalizer and (∈，∈∨q)-fuzzy centralizer are introduced.Some properties of (∈，∈∨q)-fuzzy normalizer and (∈，∈∨q)- fuzzy centralizer are discussed.Then,the definition of(∈，∈∨q)- fuzzy quotient group and (∈，∈∨q)-fuzzy quotient subgroup is given.At last,the isomorphism theorem for (∈，∈∨q)-fuzzy quotient group is established.The main results include:(1)if is a fuzzy subset of,then the (∈，∈∨q)- fuzzy normalizer of is a subgroup of;(2)if is a fuzzy subgroup of,then the (∈，∈∨q)-fuzzy centralizer of is a subgroup of and a normal subgroup of;(3)if and are (∈，∈∨q)-fuzzy normal subgroup and (∈，∈∨q)-fuzzy subgroup of,respectively,then is a (∈，∈∨q)-fuzzy subgroup of.

Key words: (∈ ∈∨q)-fuzzy subgroup；(∈ ∈∨q)-fuzzy normal subgroup；(∈ ∈∨q)-fuzzy normalizer；(∈ ∈∨q)-fuzzy centralizer；(∈ ∈∨q)-fuzzy quotient subgroup

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