

Shen, Yonghong; Chen, Wei

On fuzzy modular spaces. (English) Zbl 1266.46058

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Summary: The concept of fuzzy modular space is first proposed in this paper. Afterwards, a Hausdorff topology induced by a β -homogeneous fuzzy modular is defined and some related topological properties are also examined. And then, several theorems on μ -completeness of the fuzzy modular space are given. Finally, the well-known Baire's theorem and uniform limit theorem are extended to fuzzy modular spaces.

MSC:

46S40 Fuzzy functional analysis

Full Text: [DOI](#)

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