



Semi-simple Intuitionistic Fuzzy G - Modules

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Abstract

The concept of intuitionistic fuzzy G-modules and its properties including representation, reducibility and injectivity are already defined by the author et al. In this paper, we extend this idea to define semi-simplicity of intuitionistic fuzzy G-modules. The existence of a semi-simple intuitionistic fuzzy G-module for every finite dimensional G-module is proved and the relationships of semi-simplicity with other properties of intuitionistic fuzzy G-modules are also discussed.

Keywords: Intuitionistic fuzzy G-modules, Direct sum of intuitionistic fuzzy G-modules, Complete reducibility, Intuitionistic fuzzy injectivity, Semi-simple intuitionistic fuzzy G-modules.

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