

Ting Su (Hamburg)

Classification of Stringent Hypergroups and Doubly Distributive Skew Hyperfields

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A hypergroup is stringent if $a \boxplus b$ is a singleton whenever $a \neq b$. A hyperfield is stringent if the underlying additive hypergroup is. Every doubly distributive skew hyperfield is stringent, but not vice versa. I present a classification of stringent hypergroups, from which a classification of doubly distributive skew hyperfields follows.

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