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Classification of Stringent Hypergroups and Doubly Distributive Skew Hyperfields

Abstract for the Combinatorics Seminar 2019 September 24

A hypergroup is stringent if a \blacksquare 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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