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Some Properties of Doubly Distributive Hyperfields

Abstract for the Combinatorics Seminar 2017 October 10

A hyperfield F is doubly distributive if

$$(a \boxplus b) (c \boxplus d) = ac \boxplus ad \boxplus bc \boxplus bd$$

for any a, b, c, d in F . I will talk about several properties I found for a doubly distributive hyperfield.

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