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**Nathan Bowler** and **Ting Su\*** (tsu2@binghamton.edu). *Classification of stringent hyperfields and doubly distributive hyperfields.*

A hyperfield is stringent if  $a \boxplus b$  is a singleton whenever  $a \neq -b$ . A hyperfield  $F$  is doubly distributive if  $(a \boxplus b)(c \boxplus d) = ac \boxplus ad \boxplus bc \boxplus bd$  for any  $a, b, c, d \in F$ . Every doubly distributive hyperfield is stringent, but not vice versa. I will present a classification of stringent hyperfields, from which a classification of doubly distributive hyperfields follows. (Received January 11, 2021)