Boolean Lattice Structures on Weak Hyper BCK-ideals

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In this note, by considering the notion of weak hyper BCK-ideal of a hyper BCK-algebra, we study the lattice structure on the class of all weak hyper BCK-ideals. We show that the lattice of these ideals form a Boolean and geometric lattice, under suitable conditions. Finally, we consider the notion of pseudo complement and we prove that the algebra of all pseudocomplements of weak hyper BCK-algebra-ideals of a hyper BCK-algebra-algebra H is a Boolean lattice.