

1112-03-31

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Bounded low and high sets.

Anderson and Csima defined a jump operator, the *bounded jump*, with respect to bounded Turing (or weak truth table) reducibility. They previously showed that the bounded jump is closely related to the Ershov hierarchy and that it satisfies an analogue of Shoenfield jump inversion. We now explore bounded low and high sets. We also consider whether the analogue of the Jump Theorem holds for the bounded jump; do we have $A \leq_{bT} B$ if and only if $A^b \leq_1 B^b$? We show the forward direction holds but not the reverse. (Received June 10, 2015)