The least Σ-jump inversion theorem for N-families

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Abstract

© J.UCS. Studying the Σ-reducibility of families introduced by [Kalimullin and Puzarenko 2009] we show that for every set $X \geq_T \emptyset'$ there is a family of sets F which is the Σ-least countable family whose Σ-jump is Σ-equivalent to $X \oplus X$. This fact will be generalized for the class of n-families (families of families of... of sets).

Keywords

Countable family, Enumeration jump, Jump of structure, N-family, Σ-jump, Σ-reducibility

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