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A note on $\Delta 2 0$ -Spectra of linear orderings and degree spectra of the successor relation

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Abstract

In this paper we construct linear orderings whose $\Delta 2 0$ -spectra coincide with classes of all high0 and high1 degrees, respectively. We also prove that there exists a computable linear ordering such that its degree spectrum of the successor relation coincides with a fixed nonempty class of degrees which represents a $\Sigma 1 0$ -spectrum of some \emptyset' -computable linear ordering. © 2013 Allerton Press, Inc.

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Keywords

degree spectra of the successor relation, linear orderings, spectra