

Archive for Mathematical Logic 2009 vol.48 N1, pages 7-13

Degree spectra of the successor relation of computable linear orderings

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Abstract

We establish that for every computably enumerable (c.e.) Turing degree b the upper cone of c.e. Turing degrees determined by b is the degree spectrum of the successor relation of some computable linear ordering. This follows from our main result, that for a large class of linear orderings the degree spectrum of the successor relation is closed upward in the c.e. Turing degrees. © 2008 Springer-Verlag.

<http://dx.doi.org/10.1007/s00153-008-0110-6>
