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Low linear orderings

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Abstract

We say that L is weakly η -like if L/\sim is isomorphic to the natural ordering of rational numbers. We construct a computable presentation of any low weakly η -like linear ordering with no strongly η -like interval. Also we prove that there exists a noncomputably presentable low2 weakly η -like linear ordering with no strongly η -like interval. © ; 2010 The Author. Published by Oxford University Press. All rights reserved.

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Keywords

Computability, computable presentations, linear ordering