

1064-03-298

Andrew Edwin Marcus Lewis* (andy@aemlewis.co.uk), Department of mathematics, Leeds, LS29JT, England. *The search for natural definability in the Turing degrees.*

While the definability of all jump classes other than low has been established by Nies, Shore and Slaman through coding techniques, there remains a conspicuous lack of any natural definability results in the Turing degrees – I shall detail the state of affairs in a program which looks to address this issue by systematically analyzing the order theoretic properties satisfied by the degrees in the various jump classes. (Received September 13, 2010)