SOME RESULTS ON THE UPPER-SEMILATTICE OF R.E. m-DEGREES INSIDE A SINGLE R.E. tt-DEGREE

ANGEL V. DITCHEV

In this paper it is shown that: 1) There exists such a tt-degree which contains infinitely many m-degrees of the type of ω^k for any positive natural number k; 2) There exists such a tt-degree which contains infinitely many m-degrees of the type of $\mathbb{Q}$ of rational numbers.

Keywords: m-degrees, tt-degrees, upper semilattice

2000 MSC: 03D25, 03D30, 03D45, 03C57

Faculty of Mathematics and Informatics
"St. Kl. Ohridski" University of Sofia
5, J. Bourchier blvd., 1164 Sofia
BULGARIA
E-mail: ditchev@fmi.uni-sofia.bg