

## MEASURABLE VERSION OF VIZING'S THEOREM

OLEG PIKHURKO (JOINT WORK WITH JAN GREBIK )

University of Warwick, Coventry, United Kingdom

We present a randomised local algorithm that properly colours most edges of a graph of maximum degree d using d + 1 colours. This is applied to descriptive combinatorics to prove a measurable version of Vizing's theorem, thus answering a question posed by Miklós Abért.