REPRESENTING SETS OF COFINAL BRANCHES AS CONTINUOUS IMAGES

PHILIPP LÜCKE

ABSTRACT. Let κ be an infinite cardinal and T be a tree of height κ. We equip the set $[T]$ of all branches of length κ through T with the topology whose basic open subsets are sets of all branches containing a given node in T. Given a cardinal ν, we consider the question whether $[T]$ is equal to a continuous image of the tree of all functions $s : \alpha \longrightarrow \nu$ with $\alpha < \kappa$. This is joint work with Philipp Schlicht.

MATHEMATISCHES INSTITUT, RHEINISCHE FRIEDRICH-WILHELMS-UNIVERSITÄT BONN, ENDENICHER ALLEE 60, 53115 BONN, GERMANY
E-mail address: pluecke@math.uni-bonn.de