LEXICOGRAPHIC PRODUCTS AND IDEMPOTENT INVERSE LIMITS

STEVEN CLONTZ

Abstract. The inverse limit $\varprojlim\{X, \gamma, L\}$ may be characterized as the quotient of a generalized lexicogrphic product of the compactification $\hat{L}$ and X. A special case of this fact is used to show that when f is any nontrivial idempotent bonding relation and L is uncountable, the inverse limit $\varprojlim\{X, f, L\}$ cannot be Corson compact, and therefore cannot be metrizable.

1. Introduction

References

Department of Mathematics and Statistics, UNC Charlotte

E-mail address: steven.clontz@gmail.com