On principal left ideals of βG

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Let G be a group and let βG be the Stone-Čech compactification of G as a discrete semigroup. The semigroup βG has important applications to combinatorial number theory and to topological dynamics. In the study of algebraic structure of βG an important role is played by the fact that, for any countable group G and for any two principal left ideals of βG, either one of them is contained in another or they are disjoint [1, Corollary 6.20]. We present a certain uncountable extension of this result [2].

References

[1] N. Hindman, D. Strauss, *Algebra in the Stone-Čech compactification*, De Gruyter, Berlin, 1998.

[2] Yu. Zelenyuk, *On principal left ideals of βG*, submitted.