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Postscript to Fremlin & Nyikos 89

The result mentioned in Remark 13(b) has appeared in Steprāns 92, where it is shown that if we add ω_2 Cohen reals to a model of ZFC + CH we obtain a model in which

(i) for any two p-points in $\beta\mathbb{N} \setminus \mathbb{N}$ there is an autohomeomorphism of $\beta\mathbb{N} \setminus \mathbb{N}$ taking one to the other

(ii) some p-points are $(\omega, \mathfrak{c})$-saturating and some are not.

Accordingly, in this model, the set of $(\omega, \mathfrak{c})$-saturating ultrafilters on $\mathbb{N}$ is not topologically invariant.

References

Fremlin D.H. & Nyikos P.J. [89] 'Saturating ultrafilters on $\mathbb{N}$', J. Symbolic Logic 54 (1989) 708-718.

Steprāns J. [92] 'Topological invariants in the Cohen model', Topology and its Applications 45 (1992) 85-101.