

Dow, Alan; Hart, K. P.

Čech-Stone remainders of spaces that look like $[0, \infty)$. (English) Zbl 0837.54018

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Summary: We show that many spaces that look like the half line $\mathbb{H} = [0, \infty)$ have, under CH, a Čech-Stone-remainder that is homeomorphic to \mathbb{H}^* . We also show that CH is equivalent to the statement that all standard subcontinua of \mathbb{H}^* are homeomorphic. The proofs use model-theoretic tools like reduced products and elementary equivalence.

MSC:

[54D40](#) Remainders in general topology

[03E50](#) Continuum hypothesis and Martin's axiom

[54F50](#) Topological spaces of dimension ≤ 1 ; curves, dendrites

Cited in **3** Documents

Keywords:

[Čech-Stone-remainder](#)

Full Text: [arXiv](#) [EuDML](#)