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A compact ccc non-separable space from a Hausdorff gap and Martin's Axiom

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Abstract: We answer a question of I. Juhasz by showing that $MA \not\rightarrow CH$ does not imply that every compact ccc space of countable π -character is separable. The space constructed has the additional property that it does not map continuously onto I^{ω_1} .

Keywords: ccc, non-separable, Hausdorff gap, π -character

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