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Mathematics > General Topology

# On character of points in the Higson corona of a metric space

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We prove that for an unbounded metric space X, the minimal character mchi(check X) of a point of the Higson corona c X of X is equal to  $\operatorname{mathfrak u}$  if X has asymptotically isolated balls and to  $\operatorname{max}(\mathbf{u}, \mathbf{v}, \mathbf{v})$  otherwise. This implies that under  $\operatorname{mathfrak u} (\mathbf{v}, \mathbf{v})$  of bounded geometry is coarsely equivalent to the Cantor macrocube  $2^{<}(\mathbf{v}, \mathbf{v})$  if and only if  $\dim(\mathbf{v}, \mathbf{v})$  and  $\dim(\mathbf{v}, \mathbf{v})$  and  $\dim(\mathbf{v}, \mathbf{v})$  and  $\dim(\mathbf{v}, \mathbf{v})$  of a symptotically zero-dimensional unbounded metric space are homeomorphic.

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