

E.D. Tymchatyn, M. Zarichnyi
A note on operators extending partial ultrametrics

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Abstract: We consider the question of simultaneous extension of partial ultrametrics, i.e. continuous ultrametrics defined on nonempty closed subsets of a compact zero-dimensional metrizable space. The main result states that there exists a continuous extension operator that preserves the maximum operation. This extension can also be chosen so that it preserves the Assouad dimension.

Keywords: partial ultrametric, extension operator, Assouad dimension

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