

Symmetric connectedness in T_0 -quasi-metric spaces

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We introduce the property of symmetric connectedness for a T_0 -quasi-metric space. We present some methods in order to find the symmetrically connected pairs of a T_0 -quasi-metric space.

We also show that the problem to determine the symmetry components of points turns out to be easier when formulated for the induced T_0 -quasi-metric of an asymmetrically normed real vector space.

In addition, as a kind of opposite to the notion of a metric space, we define antisymmetric T_0 -quasi-metric spaces

Subsequently some useful results about antisymmetry can be emphasized by describing the property of antisymmetric connectedness for a T_0 -quasi-metric space.

Finally, we observe that there are natural relations between the theory of (anti)symmetrically connected T_0 -quasi-metric spaces and the theory of connectedness in the sense of graph theory.