FIXED POINTS OF OPERATORS SATISFYING VARIOUS
CONTRACTION CONDITIONS IN COMPLETE PARTIAL
METRIC SPACES

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Abstract. In this paper, we give a generalized definition of diameter of a set in a partial metric
space and as a consequence, a Cantor’s Intersection like Theorem for partial metric spaces follows.
We apply this theorem to study some fixed point results for generalized contractive type mappings
over a complete partial metric space and also give some results on continuity of fixed points and
simultaneous fixed point.

Key Words and Phrases: Partial metric spaces, fixed points, \( p \)-diameter of a set, upper/ lower
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