FIXED POINTS OF DISCONTINUOUS MAPPINGS IN UNIFORMLY CONVEX METRIC SPACES

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Abstract. Some fixed point theorems for discontinuous mappings in Banach spaces by Berinde and Păcurar [Fixed point theorems for non-self single-valued almost contractions, Fixed Point Theory 14 (2013), 301-311] and Kirk [Fixed point theorems for non-Lipschitzian mappings of asymptotically nonexpansive type, Israel J. Math. 17 (1974), 339-346] are extended to uniformly convex metric spaces.

Key Words and Phrases: Fixed points, hyperbolic metric space, uniformly convex metric space, asymptotically nonexpansive mapping, non-Lipschitzian mapping, non-self almost contractions.

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