ON THE COMPLETENESS OF ORDERED SETS

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Abstract. In this work, we introduce a density property in ordered sets that is weaker than the order density. Then, we prove a strong version of a result proved by Büher and Kirk, which is a special case of the Brouwer Reduction Theorem, in metric spaces relating completeness and density of ordered sets.

Key Words and Phrases: Compactness, complete lattice, convexity structure, fixed points, lattice, nonexpansive mappings, normal structure.

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References


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