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Sequential compactness of a subset of a metric space

Definition. Sequential compactness of a subset of a metric space

A subset A of a metric space M is **sequentially compact** if every sequence $(a_n) \subseteq A$ has a subsequence $(a_{n_k})_{k \in \mathbb{N}}$ that converges to a limit in A .

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- [structures based on sets](#)
 - [Metric spaces](#)
 - [Metric spaces](#)
 - [Compact subsets of a metric space](#)
 - [Sequential compactness of a subset of a metric space](#)

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 - [Sequential compactness of a subset of a metric space](#)