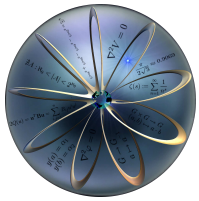

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Lindelöf theorem

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If a topological space (X, τ) satisfies the second axiom of countability, and if A is any subset of X, then any open cover for A has a countable subcover.

In particular, we have that (X, τ) is a `http://planetmath.org/lindelofspace`Lindelöf space.