

Re: Compactness

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William Elliot wrote:

A space S is compact iff
every open cover of S has a finite subcover
every filter on S has a cluster point
every ultra filter on S converges.

Well, there is another point:

In a topological space (X, T) , a subset A is compact iff for any filter basis F consisting of closed sets s.t. A clusters F (i.e., A intersects every member of F), A also cuts the core of F (i.e., $\bigcap F$).

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