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κ -complete

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Defines countably complete

A structured set S (typically a filter or a Boolean algebra) is κ -complete if, given any $K \subseteq S$ with $|K| < \kappa, \bigcap K \in S$. It is *complete* if it is κ -complete for all κ .

Similarly, a partial order is κ -complete if any sequence of fewer than κ elements has an upper bound within the partial order.

A \aleph_1 -complete is called *countably complete*.