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existence of partitions of unity

Canonical name ExistenceOfPartitionsOfUnity

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Entry type Theorem Classification msc 54D20 **Theorem -** Let X be a paracompact Hausdorff space and $\{U_i\}_{i\in J}$ an open covering of X. Then there exists a partition of unity on X subordinate to $\{U_i\}_{i\in J}$.