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prime n-manifold

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Entry type Feature Classification msc 57N10 A http://planetmath.org/TopologicalManifoldn-manifold M is called if for all the factorizations of M, as a http://planetmath.org/ConnectedSum2connected sum $M=M_1\# M_2$, one finds that one of the factors M_1 or M_2 is the n-sphere S^n .

The importance for 3-manifold is the existence and uniqueness prime decomposition theorem which says: Each 3-manifold can be decomposed as a connected sum of prime manifolds.