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irreducible n-manifold

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Entry type Definition Classification msc 57N10 An http://planetmath.org/TopologicalManifoldn-manifold M is called irreducible if for each embedding of a standard (n-1)-sphere S^{n-1} in M, there is an embedding of a http://planetmath.org/StandardNBallstandard n-ball D^n in M such that the image of the boundary ∂D^n coincides with the image of S^{n-1} .

In case of dimension three it can be proved that each irreducible 3-manifold is also a http://planetmath.org/Prime3Manifoldprime3-manifold.