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Quasi-isometric rigidity in cusp-decomposable manifolds.

A cusp-decomposable manifold is a manifold constructed from a finite number of complete, negatively curved, finite volume manifolds and identifying the boundaries of truncated cusps by diffeomorphisms. Using properties of the universal cover of cusp-decomposable manifolds, we will show that the inclusion of walls and pieces induces quasi-isometric embeddings. We will also show that isomorphisms between fundamental groups of higher graph manifolds preserve the decomposition into pieces. (Received January 17, 2021)