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2-stratifold spines of 3-manifolds

Joint work with Jose Carlos Gomez Larrañaga and Wolfgang Heil.

We call a 2-stratifold a compact Hausdorff space such that every point has an open neighborhood homeomorphic to $R \times CL$ where CL is the open cone on L for some finite set L of cardinality greater than 1. We determine which closed 3-manifolds have a 2-stratifold as spine and which closed-3-manifold groups are 2-stratifold groups.