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3-pseudomanifolds

3-pseudomanifolds are 3-dimensional cell complexes which are similar to 3-manifolds. In a 3-manifold, each link of a vertex is a 2-sphere. However, in a 3-pseudomanifold, we allow links of vertices to be arbitrary closed orientable surfaces. This results in some very interesting phenomena, which we will discuss. This is joint work with Lorenzo Ruffoni.