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Bruno Benedetti*, Dept. of Mathematics, Coral Gables, FL 33146. *Mogami manifolds.*

A “tree of tetrahedra” is a simplicial complex homeomorphic to the 3-ball and such that its dual graph is a tree. “Mogami manifolds” are the 3-manifolds that can be obtained from a tree of tetrahedra by recursively gluing together two *incident* boundary triangles. This cute property, originally introduced in a 1995 quantum physics paper, can be generalized to all dimensions and behaves nicely with respect to other properties we know, like shellability and simply-connectedness. (Received July 16, 2017)