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David Futer* (dfuter@temple.edu), Mathematics Department, Suite 638, Wachman Hall, 1805 North Broad St., Philadelphia, PA 19122, and **Neil R. Hoffman**. *Infinitely many virtual geometric triangulations.*

Every cusped hyperbolic 3-manifold should admit a decomposition into a union of positively oriented ideal tetrahedra. Somewhat shockingly, the question of whether such a geometric triangulation exists is still open. Luo, Schleimer, and Tillmann proved that geometric ideal triangulations of this sort exist in some cover of every cusped 3-manifold. We extend their result by showing that every cusped hyperbolic 3-manifold has a single cover admitting an infinite sequence of geometric ideal triangulations. The proof involves double coset separability of peripheral subgroups. This is joint work with Neil Hoffman. (Received July 22, 2020)