1077-57-588 Craig D. Hodgson (craigdh@unimelb.edu.au), Department of Mathematics and Statistics, University of Melbourne, Parkville, VIC 3010, Australia, J. Hyam Rubinstein
(rubin@ms.unimelb.edu.au), Department of Mathematics and Statistics, University of Melbourne, Parkville, VIC 3010, Australia, and Henry Segerman* (segerman@unimelb.edu.au), Department of Mathematics and Statistics, University of Melbourne, Parkville, VIC 3010, Australia. Triangulations of hyperbolic 3-manifolds admitting strict angle structures.
It is conjectured that every hyperbolic 3 -manifold with torus boundary components has a decomposition into positive volume ideal hyperbolic tetrahedra (a "geometric" triangulation of the manifold). Under a mild homology assumption on the manifold we construct topological ideal triangulations which admit a strict angle structure, which is a necessary condition for the triangulation to be geometric. In particular, every knot or link complement in the 3 -sphere has such a triangulation. (Received September 07, 2011)

