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David Gabai, Robert Haraway, Robert Meyerhoff* (meyerhog@bc.edu), **Nathaniel Thurston** and **Andrew Yarmola**. *The Complete Hyperbolic 3-Manifolds with a Maximal Cusp of Minimum Volume.*

We have proven that the figure-eight knot complement in the 3-sphere and its sibling are the complete hyperbolic 3-manifolds with a maximal cusp of minimum volume. This volume is the square root of 3. In this talk I'll discuss some of the history of this result and give some indication of the proof. (Received March 01, 2020)