

1077-AG-776 **Colin C Adams*** (cadams@williams.edu), Bronfman Science Center, Williams College,
Williamstown, MA 01267. *Hyperbolic knots.*

A knot is hyperbolic if its complement can be given a metric with constant curvature -1 . Thurston demonstrated that many knots are hyperbolic and the hyperbolic structure can be used to distinguish knots and to better understand the relationships between them. In this talk, we will discuss the various invariants that come out of the hyperbolic structure and what is known about them and what isn't known about them. We will also discuss directions that might be fruitful for further research. (Received September 12, 2011)