

1077-20-1682

Will Dison and **Tim Riley*** (tim.riley@math.cornell.edu). *Extreme compression and efficient computation, with application to the word problem*. Preliminary report.

I will discuss efficient calculation with highly compressed expressions for large integers and applications to finding efficient solutions to the word problem in some “hydra” examples of groups with huge Dehn function. (Received September 20, 2011)