

1047-30-460

**David Minda\*** ([David.Minda@math.uc.edu](mailto:David.Minda@math.uc.edu)), Old Chem 819D, Department of Mathematics,  
University of Cincinnati, Cincinnati, OH 45221-0025. *The hyperbolic metric and real affine  
mappings*. Preliminary report.

The hyperbolic metric is invariant under conformal and anti-conformal mappings. We investigate the pull-back of the hyperbolic metric by a real affine mapping. In general this is only a Riemannian metric, not a conformal metric, but is bounded above and below by conformal metrics that can be compared to the hyperbolic metric. This extends (modestly) recent work of Bañuelos and Carroll. (Received February 03, 2009)