962-20-895 Edward C Turner\* (ted@math.albany.edu), Department of Mathematics, SUNY Albany, Albany, NY 12222. Test elements on the boundary of a group. Preliminary report.

A test element g in a group G is an element with the property that any endomorphism fixing g must be an automorphism. Under the right conditions, sense can be made of this notion for points on the boundary of a group. I will show that 'most' points on the boundary of a torsion free hyperbolic group are boundary test elements. The simplest example is  $[a, b]^{\infty}$ , the infinite power of the basic commutator  $[a, b] = aba^{-1}b^{-1}$  in the free group F(a, b). (Received September 28, 2000)