

1019-11-41

**Peter D.T.A. Elliott\*** (pdtae@euclid.colorado.edu), Prof. P.D.T.A. Elliott, Dept. of Mathematics, University of Colorado at Boulder, Boulder, CO 80309-0395. *Elementary geometry applied to analytic number theory*. Preliminary report.

A result in the elementary geometry of Hilbert spaces will be sketched that through the mediation of group theory offers an approach to lower bounds upon gaps between primes. (Received July 30, 2006)