

1014-11-1032

Cameron L. Stewart* (cstewart@uwaterloo.ca), Department of Pure Mathematics, University of Waterloo, Waterloo, Ontario N2L 3G1, Canada. *On heights of multiplicatively dependent algebraic numbers*. Preliminary report.

Our objective in this talk is to prove that if A is a set of non-zero algebraic numbers, any t of which are multiplicatively dependent, then, provided that the cardinality of A is large enough, two of the numbers will have a quotient of small height relative to the heights of other elements of A . We shall also discuss some applications of this result. (Received September 26, 2005)