Normal integral bases for Emma Lehmer's parametric family of cyclic quintics

par Blair K. SPEARMAN et Kenneth S. WILLIAMS

Résumé. Nous donnons des bases normales entières explicites pour des extensions cycliques quintiques définies par la famille paramétrée de quintiques d'Emma Lehmer.

Abstract. Explicit normal integral bases are given for some cyclic quintic fields defined by Emma Lehmer's parametric family of quintics.

Blair K. Spearman
Department of Mathematics and Statistics
Okanagan University College
Kelowna, B.C. Canada V1V 1V7
E-mail : `bspearman@okanagan.bc.ca`

Kenneth S. Williams
School of Mathematics and Statistics
Carleton University
Ottawa, Ontario, Canada K1S 5B6
E-mail : `williams@math.carleton.ca`