

1048-11-249

David B. Leep* (leep@email.uky.edu), Department of Mathematics, University of Kentucky,
Lexington, KY 40506-0027. *The u -invariant of a function field over Q_p* . Preliminary report.

Last summer Heath-Brown announced some results on solving systems of quadratic forms over Q_p , where Q_p is the field of p -adic numbers. These results can be applied to obtain some results on the u -invariant of a function field over Q_p . This talk will give some details and background to these u -invariant results. (Received February 09, 2009)