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Grace K. Lyo* (gracelyo@math.mit.edu), Department of Mathematics, 77 Massachusetts Avenue, Massachusetts Institute of Technology, Boston, MA 02139. *The ℓ -adic K -theory of a p -local field.*

I will describe a conjecture of Carlsson's that provides an explicit model of the homotopy type of the completed algebraic K -theory spectrum $(KF)_\ell$ of an arbitrary field F . This is achieved using exclusively the semilinear representation theory of the absolute Galois group G_F . The conjecture is known to hold in two special cases; in this talk I will outline the proof of the most recently established case. (Received September 02, 2008)