

962-11-1211

Susan Hammond Marshall* (susan@math.arizona.edu). *Finite representations and Fermat curves*. Preliminary report.

We present results concerning finite subrepresentations of p -adic Galois representations associated to Jacobians of Fermat curves defined over $\mathbb{Q}_p(\zeta_p)$ (where by a *finite* representation we mean one that is isomorphic to the geometric points of a finite-flat group scheme defined over $\mathbb{Z}_p[\zeta_p]$). (Received October 02, 2000)