

1086-11-2172 **Taylor Dupuy*** (taylor.dupuy@gmail.com). *A Torsor of Lifts of The Frobenius (in characteristic zero)*.

Local sections of the first p -jet space of a variety over a p -adic ring give local lifts of the Frobenius. At least for curves of genus $g \geq 1$ it turns out that p -jet spaces admit the structure of a torsor under a line bundle. (Received September 25, 2012)