1018-11-146   **Rachel Pries*** (`pries@math.colostate.edu`). *The p-torsion of curves in characteristic p.* Preliminary report.

Consider the Jacobians of curves of genus g with p-rank f defined over an algebraically closed field of characteristic p. In this talk, I will state a conjecture about the group scheme which occurs generically as the p-torsion of these Jacobians. I will prove the conjecture for all g when f is between g-3 and g and explain a method which might work more generally. I may also talk about results with Darren Glass on hyperelliptic curves and about results with Hui June Zhu on Artin-Schreier curves. (Received March 03, 2006)