1017-14-181 **Jeffrey D Achter*** (j.achter@colostate.edu), Department of Mathematics, Colorado State University, Fort Collins, CO 80523-1874, and **Rachel J Pries** (pries@math.colostate.edu).
Monodromy of hyperelliptic and trielliptic curves. Preliminary report.

We consider the moduli space of cyclic degree-d covers of the projective line. When d is 2 or 3, we calculate the irreducible components of the moduli space of such covers equipped with full Jacobi level-ℓ structure. We use this to compute the frequency with which a given abelian ℓ-group occurs as the ℓ-Sylow part of the class group of a hyper- or trielliptic curve. (Received February 20, 2006)