1046-14-247 **Ted Chinburg*** (ted@math.upenn.edu), Dept. of Mathematics, University of Pennsylvania, Philadelphia, PA 19104-6395, **Frauke M. Bleher** (fbleher@math.uiowa.edu), Department of Mathematics, University of Iowa, Iowa City, IA 522421419, and **Peter Symonds**, School of Mathematics, University of Manchester, Oxford Road, Manchester, M13 9PL, England. *Katz Gabber covers of curves with extra automorphisms.* Preliminary report.

A finite group G acting faithfully on a smooth projective curve X over a perfect field k defines a Katz-Gabber G-cover $f : X \to Y = X/G$ if Y is isomorphic over P^1_k, f is unramified outside of two points $\{0, \infty\}$ of Y, f is totally ramified over ∞ and f is at most tamely ramified over 0. Clearly G embeds into the automorphism group $\mathrm{Aut}_k(X)$ of X over k. This talk will report on results concerning the case in which $\mathrm{Aut}_k(X)$ is larger than G. This has applications to finding explicit formulas for automorphisms of $k((t))$ over k. (Received August 22, 2008)