

1052-14-219

**Aaron Wootton\*** (wootton@up.edu), 5000 North Willamette Blvd, Portland, OR 97217, and **J W Anderson**. *Bounding the Number of Group Actions on a Surface of Fixed Genus*. Preliminary report.

Let  $S$  be a closed oriented surface of genus  $\sigma \geq 2$  and let  $N_\sigma$  denote the number of topologically distinct non-trivial finite group actions on  $S$ . For general  $\sigma$ , it is easy to determine upper and lower bounds for  $N_\sigma$  dependent upon  $\sigma$ , but such bounds are usually gross approximations. We consider the problem of refining such bounds. (Received August 28, 2009)