1017-14-200 **David Joyner** and **Amy Ksir*** (ksir@usna.edu), Department of Mathematics, 572-C Holloway Rd., United States Naval Academy, Annapolis, MD 21402, and **Roger Vogeler**. Group representations on some Riemann-Roch spaces of Hurwitz curves.

Let q > 1 denote an integer relatively prime to 2, 3, 7 and for which G = PSL(2,q) is a Hurwitz group for a smooth projective curve X defined over \mathbb{C} . We compute the G-module structure of the Riemann-Roch space L(D), where D is an invariant non-special divisor on the X. This depends on a computation of the ramification module, which we give explicitly. In particular, we obtain the decomposition of $H^1(X, \mathbb{C})$ as a G-module. (Received February 21, 2006)