1056-20-474 **Nic Koban\*** (`nicholas.koban@maine.edu`) and **Peter Wong** (`pwong@bates.edu`). *A relationship between the property $R_\infty$ and the geometric invariants $\Omega^n$.*

A group $G$ is said to have the property $R_\infty$ if every automorphism $\varphi \in \mathrm{Aut}(G)$ has an infinite number of $\varphi$-twisted conjugacy classes. Recent work of Gonçalves and Kochloukova uses the Bieri-Neumann-Strebel invariants $\Sigma^1(G)$ to show the property $R_\infty$ for a certain class of groups, including the generalized Thompson's groups $F_{0,n}$. In this talk, we make use of the invariants $\Omega^1(G)$ which are analogous to $\Sigma^1(G)$ to show the property $R_\infty$ for certain finitely generated groups. (Received September 09, 2009)