

1096-20-1347

Johanna Mangahas* (mangahas@math.brown.edu) and **Samuel J Taylor**. *Convex cocompactness in mapping class groups via quasiconvexity in right-angled Artin groups.*

We characterize convex cocompact subgroups of mapping class groups that arise as subgroups of specially embedded right-angled Artin groups. That is, if the right-angled Artin group G in $\text{Mod}(S)$ satisfies certain conditions that imply G is quasi-isometrically embedded in $\text{Mod}(S)$, then a purely pseudo-Anosov subgroup H of G is convex cocompact in $\text{Mod}(S)$ if and only if it is combinatorially quasiconvex in G . We use this criterion to construct convex cocompact subgroups of $\text{Mod}(S)$ whose orbit maps into the curve complex have small Lipschitz constants. (Received September 15, 2013)