



HOMOMORPHISMS OF TRIANGLE GROUPS

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Triangle group $T(m, n)$, with a presentation $\langle a, b, c \mid a^2 = b^m = c^n = abc = 1 \rangle$, is known as a group of orientation preserving automorphisms of universal map $U(m, n)$. We say that a group homomorphism $\varphi : T(m, n) \rightarrow H$ has *injectivity radius at least r* if $\varphi(x) \neq 1_H$ for all non-identity elements $x \in T(m, n)$ such that $|x| \leq r$.

In this contribution we present an upper bound on the order of a homomorphic image of the triangle group $T(m, n)$ with injectivity radius at least r .