



GEOMETRIC AND ASYMPTOTIC GROUP THEORY  
WITH APPLICATIONS  
2016

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Lee Mosher  
Rutgers University

*Hyperbolic actions and 2<sup>nd</sup> bounded cohomology for  $\text{Out}(F_n)$  and its  
subgroups.*

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*Abstract:*

We prove that finitely generated subgroups of  $\text{Out}(F_n)$  satisfy a "second bounded cohomology" alternative, by exploring, constructing, and analyzing various hyperbolic actions of such subgroups.