

Quasimorphisms on groups of negatively curved feature-mapping class groups

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Abstract: As Nicolaus Heuer pointed out last week, the stable commutator lengths can be defined using quasimorphisms. We will now study quasimorphisms on groups from the viewpoint of group actions. After a short introduction on hyperbolic groups and mapping class groups, we will give a classical criterion for showing the existence of nontrivial quasimorphisms on groups acting nicely on hyperbolic graphs following Bestvina-Fujiwara. We then finish our talk by checking that both hyperbolic groups and mapping class groups satisfy this interesting criterion.