

# On the hyperbolic volume of $\mathrm{PSL}(2, C)$ -representations of fundamental groups

Koki Masumoto

Osaka University

**Abstract.** Let  $M$  be a cusped 3-manifold. For a  $\mathrm{PSL}(2, C)$ -representation of the fundamental group of  $M$ , we can define the hyperbolic volume. In this talk we will show that the hyperbolic volume of a representation is invariant by a mutation.