

ISOMETRIES ON A LIPSCHITZ SPACE OF ANALYTIC FUNCTIONS

TAKESHI MIURA
DEPARTMENT OF MATHEMATICS, FACULTY OF SCIENCE,
NIIGATA UNIVERSITY, JAPAN

Let \mathcal{H} be the Lipschitz space of all analytic functions on the open unit disc. By the help of the Mazur–Ulam theorem, we give the characterization of surjective, not necessarily linear, isometry on \mathcal{H} with the norm $\|f\|_{\mathcal{H}} = |f(0)| + L(f)$ for $f \in \mathcal{H}$, where $L(f)$ is the Lipschitz constant of f .