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Title:	Discreteness Of Hyperbolic Isometries by Test Maps
Authors:	Gongopadhyay, Krishnendu (/jspui/browse?type=author&value=Gongopadhyay%2C+Krishnendu)
Keywords:	Discreteness Hyperbolic Isometries Test Maps
Issue Date:	2021
Publisher:	Cornell University
Citation:	ArXiv:1812.07247 [Math], 58(3), 697–710.
Abstract:	Let $F=\mathbb{R}$, \mathbb{C} or \mathbb{H} . Let $H_n F$ denote the n -dimensional F -hyperbolic space. Let $U(n,1;F)$ be the linear group that acts by the isometries. A subgroup G of $U(n,1;F)$ is called Zariski dense if it does not fix a point on the closure of the F -hyperbolic space, and neither it preserves a totally geodesic subspace of it. We prove that a Zariski dense subgroup G of $U(n,1;F)$ is discrete if for every loxodromic element $g \in G$, the two generator subgroup $\langle f, g \rangle$ is discrete, where $f \in U(n,1;F)$ is a test map not necessarily from G .
Description:	Only IISER Mohali authors are available in the record.
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