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Title:	Local Coordinates for Complex and Quaternionic Hyperbolic Pairs
Authors:	Gongopadhyay, Krishnendu (/jspui/browse?type=author&value=Gongopadhyay%2C+Krishnendu)
Keywords:	Character variety Complex hyperbolic space
Issue Date:	2022
Publisher:	Cambridge University Press
Citation:	Journal of the Australian Mathematical Society, 113(1), 57–78.
Abstract:	Let G(n)=Sp(n,1) or SU(n,1) . We classify conjugation orbits of generic pairs of loxodromic elements in G(n) . Such pairs, called 'nonsingular', were introduced by Gongopadhyay and Parsad for SU(3,1) . We extend this notion and classify G(n) -conjugation orbits of such elements in arbitrary dimension. For n=3 , they give a subspace that can be parametrized using a set of coordinates whose local dimension equals the dimension of the underlying group. We further construct twist-bend parameters to glue such representations and obtain local parametrization for generic representations of the fundamental group of a closed (genus g≥2) oriented surface into G(3).
Description:	Only IISER Mohali authors are available in the record.
URI:	https://doi.org/10.1017/S144678872100001X (https://doi.org/10.1017/S144678872100001X) http://hdl.handle.net/123456789/5234 (http://hdl.handle.net/123456789/5234)
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