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Title:	Algebraic characterization of isometries of the complex and the quaternionic hyperbolic planes
Authors:	Gongopadhyay, Krishnendu (/jspui/browse?type=author&value=Gongopadhyay%2C+Krishnendu)
Keywords:	Classification of isometries Complex and quaternionic hyperbolic space z-class
Issue Date:	2012
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Citation:	Geometriae Dedicata, 157 (1), pp. 23-39
Abstract:	Let H F 2 denote the two dimensional hyperbolic space over F, where F is either the complex numbers $\mathbb{C}$ or the quaternions $\mathbb{H}$. It is of interest to characterize algebraically the dynamical types of isometries of H F 2. For F = $\mathbb{C}$, such a characterization is known from the work of Giraud-Goldman. In this paper, we offer an algebraic characterization of isometries of H $\mathbb{H}$ 2. Our result restricts to the case F = $\mathbb{C}$ and provides another characterization of the isometries of H $\mathbb{C}$ 2, which is different from the characterization due to Giraud-Goldman. Two elements in a group G are said to be in the same z-class if their centralizers are conjugate in G. The z-classes provide a finite partition of the isometry group. In this paper, we describe the centralizers of isometries of H F 2 and determine the z-classes.
Description:	Only IISERM authors are available in the record.
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