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Title:	Reversibility of Hermitian isometries
Authors:	Gongopadhyay, Krishnendu (/jspui/browse?type=author&value=Gongopadhyay%2C+Krishnendu) Lohan, Tejbir (/jspui/browse?type=author&value=Lohan%2C+Tejbir)
Keywords:	Hermitian isometries Affine isometries
Issue Date:	2022
Publisher:	Elsevier
Citation:	Linear Algebra and Its Applications, 639 159-176.
Abstract:	An element $g$ in a group $G$ is called reversible (or real) if it is conjugate to $g^{-1}$ in $G$ , i.e., there exists $h$ in $G$ such that $g^{-1} = hgh^{-1}$ . The element $g$ is called strongly reversible if the conjugating element $h$ is an involution (i.e., element of order at most two) in $G$ . In this paper, we classify reversible and strongly reversible elements in the isometry groups of $F$ -Hermitian spaces, where $F = \mathbb{C}$ or $\mathbb{H}$ . More precisely, we classify reversible and strongly reversible elements in the groups $Sp(n)H_n$ , $U(n)C_n$ and $SU(n)C_n$ . We also give a new proof of the classification of strongly reversible elements in $Sp(n)$ .
Description:	Only IISER Mohali authors are available in the record.
URI:	<a href="https://doi.org/10.1016/j.laa.2022.01.009">https://doi.org/10.1016/j.laa.2022.01.009</a> ( <a href="https://doi.org/10.1016/j.laa.2022.01.009">https://doi.org/10.1016/j.laa.2022.01.009</a> ) <a href="http://hdl.handle.net/123456789/5235">http://hdl.handle.net/123456789/5235</a> ( <a href="http://hdl.handle.net/123456789/5235">http://hdl.handle.net/123456789/5235</a> )
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