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| Title: | On the classifications of unitary matrices |
| Authors: | Gongopadhyay, Krishnendu (/jspui/browse?type=author&value=Gongopadhyay%2C+Krishnendu) Parker, J.R. (/jspui/browse?type=author&value=Parker%2C+J.R.) Parsad, Shiv (/jspui/browse?type=author&value=Parsad%2C+Shiv) |
| Keywords: | matrices in $SU(p,q)$ coefficients $SU(2,1)$ $SU(1,1)$ |
| Issue Date: | 2015 |
| Publisher: | Osaka University |
| Citation: | Osaka Journal of Mathematics, 52(4) pp. 959-991 |
| Abstract: | We classify the dynamical action of matrices in $SU(p,q)$ using the coefficients of their characteristic polynomial. This generalises earlier work of Goldman for $SU(2,1)$ and the classical result for $SU(1,1)$, which is conjugate to $SL(2,\mathbb{R})$. As geometrical applications, we show how this enables us to classify automorphisms of real and complex hyperbolic space and anti de Sitter space. |
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