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Invariant Differential Operators on Siegel-Jacobi Space

Jae-Hyun Yang

(Submitted on 4 Jul 2011)

For two positive integers \$m\$ and \$n\$, we let ${\mathbb{R}}_n$ be the Siegel upper half plane of degree \$n\$ and let ${\mathbb{R}}_n$ be the set of all \$m\times n\$ complex matrices. In this article, we study differential operators on the Siegel-Jacobi space ${\mathbb{R}}_n$ be the Jacobi group ${\mathbb{R}}_n$ that are invariant under the natural action of the Jacobi group ${\mathbb{R}}_n$ be the R} \\times H_{\mathrm{R}} B^{(n,m)}\$ on ${\mathbb{R}}_n$ the set of ${\mathbb{R}}_n$ where ${\mathbb{R}}_n$ and ${\mathbb{R}}_n$ be the set of the present important problems which are natural differential operators. We present important problems.

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