

POISSON FORMULA AND COMPOUND DIFFUSION ASSOCIATED TO AN OVERDETERMINED ELLIPTIC SYSTEM ON THE SIEGEL HALFPLANE OF RANK TWO

BY

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Introduction

Let $z = (z_1, z_2, z_3) \in \mathbb{C}^3$; we write $z_j = x_j + iy_j$ ($1 \leq j \leq 3$); we also use polar coordinates (ϱ, θ) in the (y_2, y_3) -plane when convenient. $H = \{z \mid y_1 - \varrho > 0\}$ is a tube domain over a circular cone; by a linear change of coordinates it is equivalent to the Siegel upper halfplane

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