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

BY
A. KORÁNYI AND P. MALLIAVIN
Yeshiva University, New York, USA
Université de Paris VI, France

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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 $(q, \theta)$ in the $(y_2, y_3)$-plane when convenient. $H = \{z | y_1 - q > 0\}$ 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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