1023-47-36   **Ovidiu Furdui*** (`o0furdui@wmich.edu`), Western Michigan University, Department of Mathematics, Kalamazoo, MI 49008. *On a class of Integral Operators related to the Fock Spaces.*

For real parameters a, b, c and s, where s is a positive number we determine exactly when the Bergman type integral operators

$$T_{a,b,c}f(z) = \int_{\mathbb{C}^n} e^{a|z|^2+b\langle z,w\rangle+c|w|^2} f(w)dv_s(w)$$

and

$$S_{a,b,c}f(w) = \int_{\mathbb{C}^n} |e^{a|z|^2+b\langle z,w\rangle+c|w|^2}|f(w)dv_s(w)$$

are bounded on $L^p(\mathbb{C}^n, dv_s(z))$, where $dv_s(z) = \left(\frac{s}{\pi}\right)^n e^{-s|z|^2}dv(z)$ is the Gaussian probability measure on $\mathbb{C}^n$ and dv is the ordinary Lebesque measure on $\mathbb{C}^n$. This generalizes a result obtained recently by professor Kehe Zhu. (Received July 10, 2006)

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