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**Jingbo Xia** and **Dechao Zheng\*** ([dechao.zheng@vanderbilt.edu](mailto:dechao.zheng@vanderbilt.edu)), Department of Mathematics, Vanderbilt University, Nashville, TN 37240. *LOCALIZATION AND BEREZIN TRANSFORM ON THE FOCK SPACE.*

We introduce the class of sufficiently localized operators on the Fock space. This class contains in particular all the Toeplitz operators with bounded symbols. We show that for an operator in the  $C^*$ -algebra generated by the class of sufficiently localized operators, the operator is compact on the Fock space if and only if its Berezin transform vanishes at infinity. (Received August 11, 2013)