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**Samangi Munasinghe\***, Department of Mathematics, Western Kentucky University, 1906 College Heights Blvd., Bowling Green, KY 42102. *Compactness of the  $\bar{\partial}$ -Neumann operator on block diagonal domains.*

We give sufficient conditions for compactness of the  $\bar{\partial}$ -Neumann operator for a specific class of domains. The block diagonal domains were introduced by M. Derridj and the geometric sufficient conditions were introduced by E. Straube. (Received September 03, 2012)