Hyun Kwon* (hyunkwon@snu.ac.kr), Ronald Douglas and Sergei Treil. Similarity of Operators in the Bergman Space Setting.

We characterize the 2- hypercontractions that are similar to the backward shift operator in the Bergman space $A^2$. This description resembles the one given for contraction operators that are similar to the backward shift in the Hardy space $H^2$, where the eigenvector bundle structure of the operators is used. (Received September 22, 2011)