Lon H Mitchell* (lmitchell2@vcu.edu). Operators on the $L^\infty$ spaces of Bourgain and Delbaen.

In 1980, J. Bourgain and F. Delbaen constructed two classes of $L^\infty$ spaces each exhibiting many surprising properties. For a Banach space in either of these classes we define a bounded shift-type operator which is an isometry when restricted to a certain hyperplane. (Received September 20, 2010)