1017-46-119   **Edward Beckenstein*** (`beckense@stjohns.edu`), St. John's University, Dep. of Math & CS, 300 Howard Ave., DaSilva Hall, Staten Island, NY 10301, and **Lawrence Narici** (`naricil@stjohns.edu`), St. John's University, Dep. of Math & CS, 8000 Utopia Parkway, St. John's Hall 334, Queens, NY 11439. *Basis separating maps.*

Let X and Y be Banach spaces, each with a Schauder basis. A basis separating (disjointness preserving) operator A: from X into Y, is a map with the property that if sequences (x(n)) and (y(n)) in X satisfy x(n)y(n)=0 for all n, then A((x(n))A(y(n))=0 for all n as well. In previous work with L. Narici we showed that a basis separating bijection is a homeomorphism as well as a weighted composition map [A((x(n))=(w(n)x(n))]. We continue our work with these operators and have determined the nature of the sequences that can be used as weight coefficients w(n) when X and Y are Lorentz sequence spaces, l-sub-p sequence spaces, Orlicz sequence spaces, and in all three cases the basis of Y is stronger than the basis of X..We have also determined the form of basis separating isometries A: from X into X, of Lorentz sequence spaces X as well as a necessary and sufficient condition for them to be onto). (Received February 20, 2006)