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The spectrum of disjointness preserving operators on rich subspaces of Banach lattices.

We describe the spectrum of restrictions of disjointness preserving operators on "rich" subspaces of Banach lattices. We call a closed linear subspace Y of a Dedekind complete Banach lattice X rich if for any band B in X and for any $\varepsilon < 0$ there is a $y \in Y$ such that $\|y\| = 1$ and $\|(I - P_B)y\| < \varepsilon$ where P_B is the band projection on band B . A classic example of a rich subspace is the Hardy space H^p , $1 \leq p < \infty$, considered as a subspace of L^p on the unit circle.