

Title: Products of Projections

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Abstract: Let X and Y be two closed subspaces of a Hilbert space. If we send a point back and forth between them by orthogonal projection, the iterates converge to the projection of the point on the intersection of X and Y . We will investigate when a sequence of orthoprojections of a point in a Hilbert space on a finite family of closed subspaces, or more generally, closed convex subsets, converges.