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John D Jasper* (jjasper@uoregon.edu), Department of Mathematics, 1222 University of Oregon, Eugene, OR 97403. *The Schur-Horn Theorem for Operators with Three Point Spectrum.*

We characterize the set of diagonals of the unitary orbit of a self-adjoint operator with three points in the spectrum. Our result gives a Schur-Horn theorem for operators with three point spectrum analogous to Kadison's result for orthogonal projections. (Received September 23, 2010)