1037-43-301 Radu Balan\* (rvbalan@math.umd.edu), Department of Mathematics, University of Maryland, College Park, MD 20742, and Ilya Kryshtal. An Almost Periodic Noncommutative Wiener's Lemma. Preliminary report.

We develop a theory of almost periodic elements in Banach algebras and present an abstract version of a noncommutative Wiener's Lemma. The theory can be used, for example, to derive some of the recently obtained results in time-frequency analysis such as the spectral proerties of the finite linear combinations of time-frequency shifts. (Received February 04, 2008)