

**Values distribution of almost periodic functions, spectral factorization and entire functions**

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**Abstract:** We recently derived an upper bound on the mean measure of the set where a nonzero Bohr almost periodic function  $f$  with bounded spectra has small modulus. This bound implies that  $\log |f|$  is almost periodic in the sense of Besicovitch. We use this result to relate the Ahiezer factorization of an entire extension  $F$  of a nonnegative Bohr almost periodic function  $f$  with a bounded spectrum and the Helson-Lowdenslager spectral factorizations of its lift  $h$  to a compact group. We also discuss new classes of one dimensional quasicrystals related to both Bohr and Besicovitch almost periodic functions.