

SOME COMMENTS ON ALMOST PERIODICITY AND RELATED TOPICS

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(Communicated by Toka Diagana)

1 Introduction

The concept of almost periodicity has acquired widespread diffusion in contemporary research, the interest for it reaching more and more fields of investigation, in both pure and applied mathematics.

This paper contains a few comments and results, related mainly to the classical aspects of the theory, but also with incursions in the recent applications and newly generated concepts, such as spaces of almost periodic functions or related concepts like pseudo-almost periodic functions.

A growing number of authors have brought remarkable contributions related to almost periodicity and its applications, and we indicate here a few classical references, other pertaining particularly to authors who relatively recently have published books, survey papers or extended articles treating various aspects concerning the almost periodicity and its related fields.

For general references, see the books/monographs by H. Bohr [4], A.S. Besicovitch [3], J. Favard [13], B.M. Levitan and V.V. Zhikov [17], L. Amerio and G. Prouse [1], C. Corduneanu [5], [11], A.M. Fink [14], S. Zaidman [19], Ch. Zhang [20], and the vast literature therein. Survey papers are numerous, and we send the reader to a recent one by A. Andres et al. [2].

The applications of almost periodicity are numerous, usually scattered in various books and monographs, not to mention those in journals (mathematical, science, engineering). We shall quote here the books by M.A. Krasnoselskii et al. [16], by Y. Hino et al. [15], and C. Corduneanu [11].

It is very significant, for applications to real phenomena, the fact that properties of almost periodic functions are naturally extended to richer classes of functions, such as the

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