ON THE BOHR TRANSFORM OF ALMOST-PERIODIC SOLUTIONS FOR SOME DIFFERENTIAL EQUATIONS IN ABSTRACT SPACES

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ABSTRACT. We consider abstract differential equations of the form $u'(t) = Au(t) + f(t)$ or $u''(t) = Au(t) + f(t)$ in Banach spaces X, where $f(\cdot)$, $\mathbb{R} \to X$ is almost-periodic, while A is a linear operator, $\mathscr{D}(A) \subset X \to X$. If the solution $u(\cdot)$ is likewise almost-periodic, $\mathbb{R} \to X$, we establish connections between their Bohr-transforms, $\hat{u}(\lambda)$ and $\bar{f}(\lambda)$.

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1. Introduction. If $u(\cdot)$, $\mathbb{R} \to X$ (a Banach space) is an ultraweak almost-periodic solution of the differential equation

$$u'(t) = Au(t) + f(t), \quad t \in \mathbb{R} \text{ (first order)} \tag{1.1}$$

or

$$u''(t) = Au(t) + f(t), \quad t \in \mathbb{R} \text{ (second order)} \tag{1.2}$$

with linear—not necessarily continuous—operator A, $\mathscr{D}(A) \subset X \to X$, and with almost-periodic "forcing" term $f(\cdot)$, $\mathbb{R} \to X$, then the Bohr transforms

$$\bar{f}(\lambda) = \lim_{T \to \infty} \frac{1}{T} \int_0^T e^{-i\lambda t} f(t)\,dt, \qquad \hat{u}(\lambda) = \lim_{T \to \infty} \frac{1}{T} \int_0^T e^{-i\lambda t} u(t)\,dt, \tag{1.3}$$

will both exist, for all reals λ.

It appears that it is possible to establish a typical relationship between $\hat{u}(\lambda)$ and $\bar{f}(\lambda)$ which implies also connections between the (countable) sets

$$\Lambda_u = \{\lambda \in \mathbb{R}, \, \hat{u}(\lambda) \neq \theta\}, \qquad \Lambda_f = \{\lambda \in \mathbb{R}, \, \bar{f}(\lambda) \neq \theta\}, \tag{1.4}$$

(the elements of Λ_u, Λ_f are the Fourier "exponents" of $u(\cdot)$, $f(\cdot)$, resp.).

Some "historical" notes:

(i) In [7] we have (1.2) in a Hilbert space, with $A \geq \Theta$, and the solution is in the usual sense. One obtains the equality

$$(\lambda^2 + \bar{A})\hat{u}(\lambda) = -\bar{f}(\lambda), \quad \forall \lambda \in \mathbb{R}, \tag{1.5}$$

where $\bar{A}$ is a selfadjoint extension of A.

(ii) In [6] the equation is (1.1) and f is continuous almost-periodic in Stepanoff S^p-sense; the operator A is closed in X. One gets the equality

$$(i\lambda - A)\hat{u}(\lambda) = \bar{f}(\lambda). \tag{1.6}$$

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