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

SAMUEL ZAIDMAN

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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, $\mathfrak{D}(A) \subset X \to X$. If the solution $u(\cdot)$ is likewise almost-periodic, $\mathbb{R} \to X$, we establish connections between their Bohr-transforms, $\tilde{u}(\lambda)$ and $\tilde{f}(\lambda)$.

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 Introduction. If u(·), R → X (a Banach space) is an ultraweak almost-periodic solution of the differential equation

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

COL

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

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

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

will both exist, for all reals λ .

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

$$\Lambda_{\alpha} = \{ \lambda \in \mathbb{R}, \hat{\alpha}(\lambda) \neq \emptyset \}, \quad \Lambda_{f} = \{ \lambda \in \mathbb{R}, \hat{f}(\lambda) \neq \emptyset \},$$
 (1.4)

(the elements of Λ_ω, Λ_f are the Fourier "exponents" of u(·), f(·), resp.).

Some "historical" notes:

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

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

where A is a selfadioint 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

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

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