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On well-posedness of a non-resonance inhomogeneous linear differential equation in a Banach space in some special class of entire functions

Let A be a closed linear operator on a Banach space with a domain of definition that is not of necessity dense, having a bounded inverse operator. We studied the question on well-posedness of the inhomogeneous linear differential equation $w'(z) = Aw(z) + f(z)$ in a space of entire vector-functions of zero exponential type.