

Meeting: 1004, Bowling Green, Kentucky, SS 7A, Special Session on Semigroups of Operators and Applications

1004-34-253 **Quoc-Phong Vu*** (qvu@math.ohiou.edu), Department of Mathematics, Ohio University, Athens, OH 45701. *Admissible subspaces and almost periodicity of solutions of degenerate equations.*

We present a general method that uses criteria for admissibility of subspaces to answer the question of almost periodicity of solutions of general integro-differential equations $\mathcal{L}u = f$, where \mathcal{L} is an integro-differential operator. We apply this method to concrete classes of equations, including the degenerate differential equations $Bu'(t) = Au(t) + f(t)$ where A and B are closed linear operators on a Banach space.

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