## 1046-34-840 Zhivko S. Athanassov\* (zhivko@math.bas.bg), G. Bonchev Str. 8, 1113 Sofia, Bulgaria. Stability of Perturbed Almost Periodic Ordinary Differential Equations. Preliminary report.

We will discuss the preservation of stability of systems of almost periodic differential equations under perturbations. Consider the following systems: (N) x' = f(t, x) and (P) x' = f(t, x) + g(t, x), where f(t, x) is almost periodic in t, f(t, 0) = 0, and x = 0 is uniformly asymptotically stable for (N). We use techniques originated essentially by H. Okamura to establish conditions on f and g for the origin to be integrally and totally asymptotically stable. Results are also obtained for special cases of (N) such as linear and periodic equations. (Received September 12, 2008)