CREATIVE MATH. & INF. **16** (2007), 36 - 41

Dedicated to Professor Ioan A. RUS on the occasion of his 70^{th} anniversary

Differentiability with respect to delays for a Lotka-Volterra system*

DIANA OTROCOL

 $ABSTRACT. \ \ We study the differentiability with respect to delays using the weakly Picard operators technique.$

"TIBERIU POPOVICIU" INSTITUTE OF NUMERICAL ANALYSIS P.O. BOX 68-1 400110 CLUJ-NAPOCA, ROMANIA E-mail address: dotrocol@ictp.acad.ro E-mail address: diana.otrocol@gmail.com

^{*} This work has been supported by MEdc under Grant 2-CEx06-11-96.