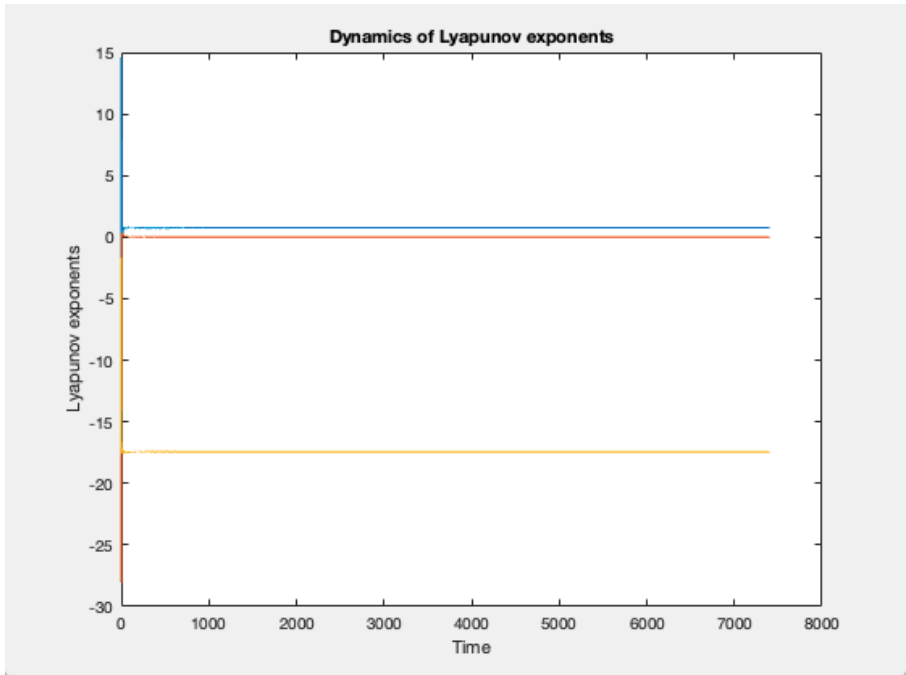


Trabalho 3

Parâmetros:		Expoentes de Lyapunov:	
$\sigma = 14;$ $\beta = \frac{5}{3};$ $\rho = 35$		$\lambda_1 = 0.996;$ $\lambda_2 = 0;$ $\lambda_3 = -17.6$	
1	[T,Res]=lyapunov_matds(3,@lorenz_ext,@ode45,0,0.01,7400,[0 1 0],10);		
2	plot(T,Res);		
3	title('Dynamics of Lyapunov exponents');		
4	xlabel('Time'); ylabel('Lyapunov exponents');		

t=7399.0000	0.776247	0.000511	-17.443424
t=7399.1000	0.776280	0.000501	-17.443447
t=7399.2000	0.776352	0.000486	-17.443505
t=7399.3000	0.776452	0.000467	-17.443586
t=7399.4000	0.776568	0.000448	-17.443683
t=7399.5000	0.776678	0.000439	-17.443784
t=7399.6000	0.776703	0.000463	-17.443834
t=7399.7000	0.776626	0.000456	-17.443749
t=7399.8000	0.776511	0.000423	-17.443600
t=7399.9000	0.776472	0.000330	-17.443469
t=7400.0000	0.776441	0.000319	-17.443427

Dynamics of Lyapunov exponents



Time	Lyapunov exponent 1	Lyapunov exponent 2	Lyapunov exponent 3
0	0.996	0	-17.6
7400	0.996	0	-17.6

