

Relatório EDPs HCV

para a reuniao do dia 06/17/21(mes/dia)

DE 11param para 8 dias PATBXX e CXX comparação de 2 vezes
executando o mesmo código

Matheus Avila Moreira de Paula

UFJF

- Foram realizadas duas execuções do mesmo código. Também fiz um teste com B07 e B16 tirando um ponto
- Não fiz a média e o desvio padrão dos parâmetros porque, como será mostrado, os parâmetros variam de acordo com as execuções
- Foi feita uma DE para 8 dias usando V0 como o valor do primeiro ponto experimental
- 30 popsize 30 maxiter Parâmetros e bounds:
 - $\epsilon_r = (0.1, 0.99)$ $\epsilon_\alpha = (0.1, 0.99)$ $\epsilon_s = (0.1, 0.99)$
 - $\alpha = 20,60$ // $r = 0.1, 10$ // $\delta = (0.01, 2)$ // $\mu_c = (0.1, 2)$
 - $\rho = (1, 15)$
 - $\theta = (1, 2)$
 - $\sigma = (1, 2)$
 - $c = (10, 25)$

Table: Parametros das DEs

parametros	1 teste	2 teste
ϵ_r	0.6	0.599
ϵ_α	0.76	0.579
ϵ_s	0.95	0.964
α	20.6	22.67
r	0.54	1.846
δ	0.15	0.3327
μ_c	0.66	1.779
ρ	4.99	8.435
θ	1.3	1.564
σ	1.27	1.394
c	11.4	11.857
erro	0.0647	0.064

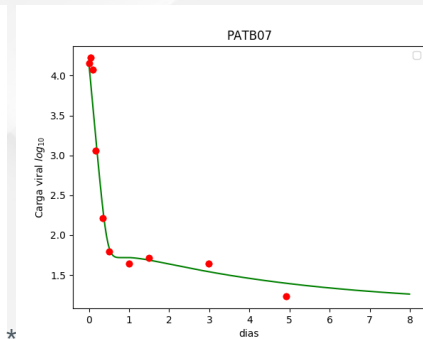
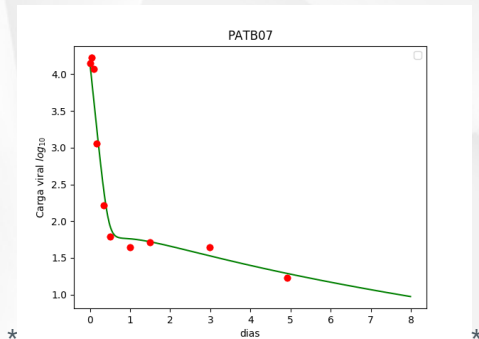


Table: Parametros das DEs

parametros	1 teste	2 teste
ϵ_r	0.334	0.232
ϵ_α	0.478	0.434
ϵ_s	0.2345	0.132
α	42.94	22.44
r	0.1217	0.1396
δ	0.3409	0.231
μ_c	0.1067	0.3558
ρ	5.279	1.673
θ	1.8919	1.577
σ	1.703	1.509
c	11.6	10.563
erro	0.4658	0.0445

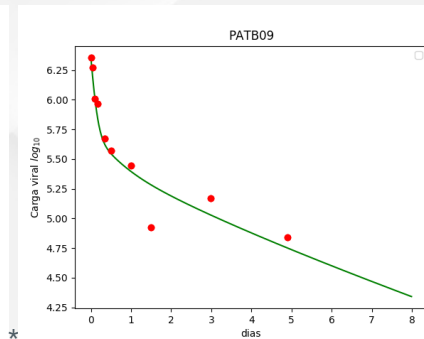
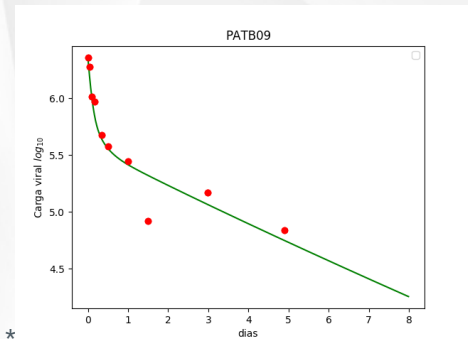


Table: Parametros das DEs

parametros	1 teste	2 teste
ϵ_r	0.4758	0.16
ϵ_α	0.905	0.775
ϵ_s	0.5116	0.16
α	23.92	29.7
r	0.699	4.85
δ	0.063	0.178
μ_c	0.111	0.448
ρ	13.83	13.524
θ	1.809	1.611
σ	1.9634	1.872
c	11.712	12.47
erro	0.0494	0.04959

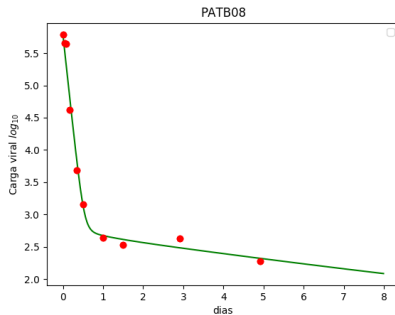
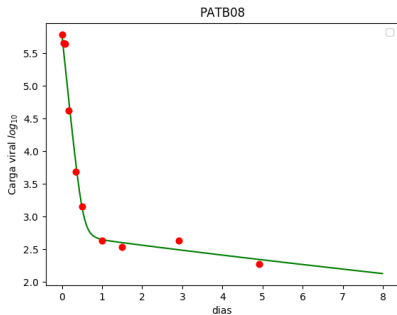


Table: Parametros das DEs

parametros	1 teste	2 teste
ϵ_r	0.7498	0.475
ϵ_α	0.453	0.566
ϵ_s	0.963	0.935
α	22.849	26.888
r	5.871	4.371
δ	0.875	0.706
μ_c	0.732	0.702
ρ	11.95	10.320
θ	1.343	1.180
σ	1.393	1.676
c	11.169	11.482
erro	0.0717	0.0717

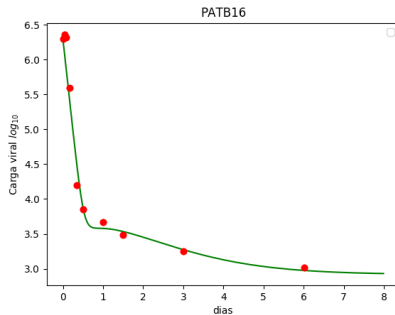
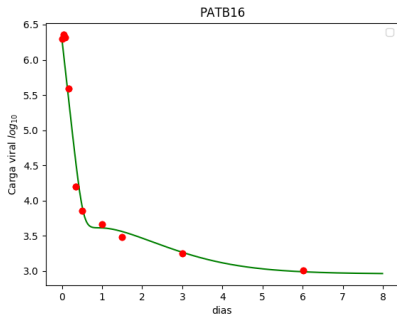


Table: Parametros das DEs

parametros	1 teste	2 teste
ϵ_r	0.722	0.11
ϵ_α	0.679	0.654
ϵ_s	0.293	0.173
α	46.732	52.16
r	4.328	3.098
δ	0.0319	0.11
μ_c	0.973	1.645
ρ	12.094	14.463
θ	1.74	1.689
σ	1.506	1.59
c	10.00	10.025
erro	0.0995	0.0996

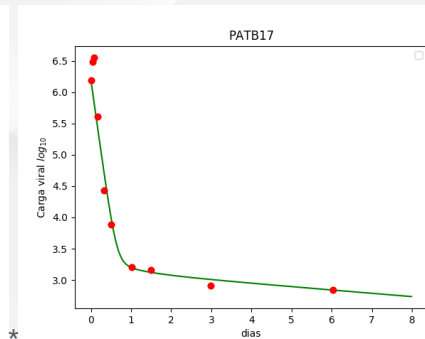
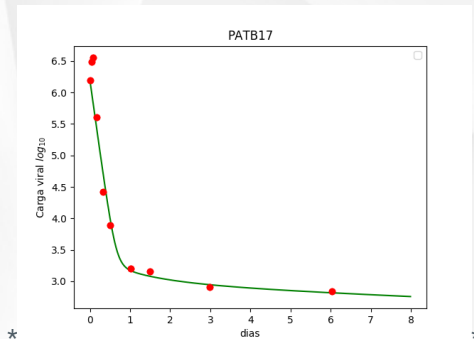


Table: Parametros das DEs

parametros	1 teste	2 teste
ϵ_r	0.211	0.464
ϵ_α	0.959	0.8978
ϵ_s	0.788	0.9125
α	32.7	50.52
r	2.388	3.448
δ	0.0997	0.103
μ_c	0.232	1.792
ρ	6.729	7.589
θ	1.44	1.766
σ	1.893	1.797
c	10.18	10.16
erro	0.0741	0.07416

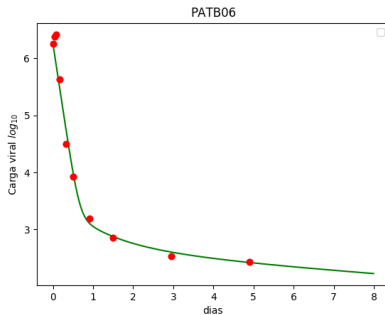
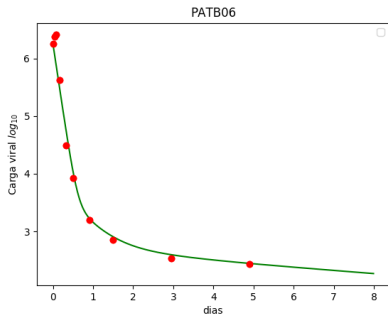


Table: Parametros das DEs

parametros	1 teste	2 teste
ϵ_r	0.103	0.368
ϵ_α	0.773	0.768
ϵ_s	0.33	0.397
α	58.68	58.4
r	2.5698	4.475
δ	0.3005	0.284
μ_c	0.837	1.194
ρ	9.111	13.78
θ	1.207	1.783
σ	1.477	1.371
c	10.005	10.04
erro	0.077	0.0773

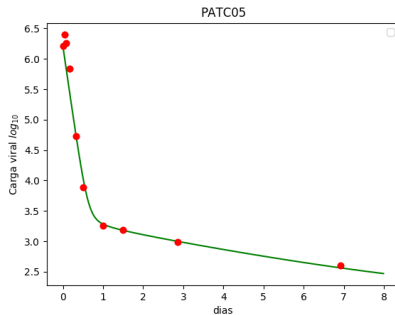
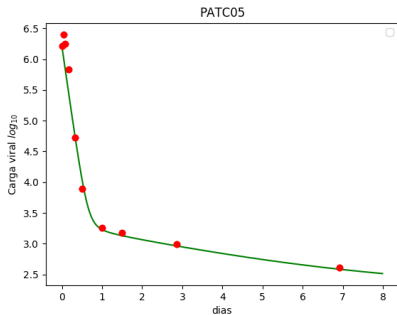


Table: Parametros das DEs

parametros	1 teste	2 teste
ϵ_r	0.12	0.559
ϵ_α	0.972	0.907
ϵ_s	0.857	0.137
α	25.25	24.52
r	7.671	4.85
δ	0.245	0.109
μ_c	0.364	0.646
ρ	14.23	8.296
θ	1.4	1.394
σ	1.32	1.047
c	10	10.025
erro	0.0643	0.066

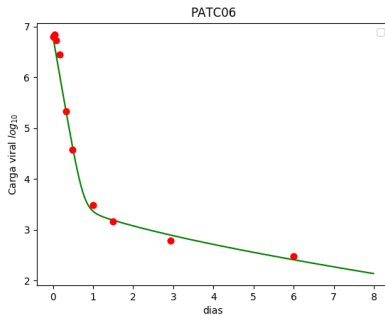
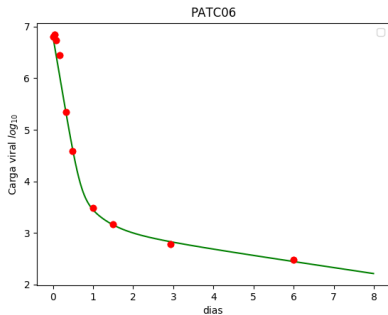


Table: Parametros das DEs

parametros	1 teste	2 teste
ϵ_r	0.376	0.376
ϵ_α	0.718	0.585
ϵ_s	0.166	0.328
α	56.77	39.36
r	2.703	3.804
δ	0.834	0.774
μ_c	1.584	1.178
ρ	6.86	13.599
θ	1.94	1.491
σ	1.84	1.791
c	10.09	10
erro	0.07216	0.07326

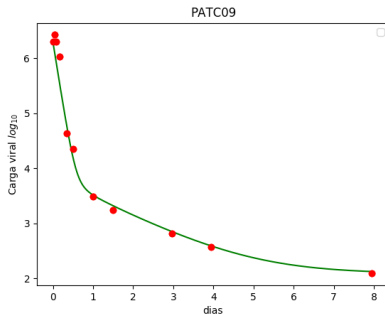
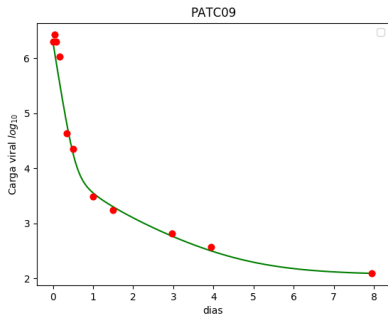


Table: Parametros das DEs

e parametros	1 teste	2 teste
ϵ_r	0.84	0.893
ϵ_α	0.826	0.759
ϵ_s	0.231	0.961
α	39.19	27.47
r	2.553	4.44
δ	0.088	0.0133
μ_c	0.332	1.419
ρ	14.31	14.11
θ	1.22	1.489
σ	1.038	1.515
c	12.18	11.56
erro	0.06233	0.06197

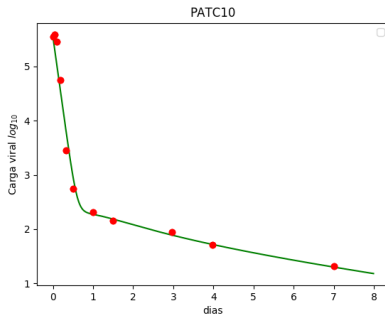
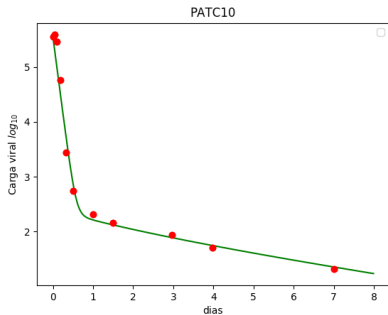


Table: Parametros da DE sem t=1

parametros	teste 1	teste 2	teste
ϵ_r	0.6	0.599	0.357
ϵ_α	0.76	0.579	0.295
ϵ_s	0.95	0.964	0.684
α	20.6	22.67	30.49
r	0.54	1.846	0.5775
δ	0.15	0.3327	0.224
μ_c	0.66	1.779	1.186
ρ	4.99	8.435	12.477
θ	1.3	1.564	1.442
σ	1.27	1.394	1.28
c	11.4	11.857	12.38
erro	0.0647	0.064	0.073

