

1. Find the optimal LPPL parameters, suppose t_c in [1151,1166]

$A = 4.590957870276358$

$B = -0.10735667370970817$

$C = 0.3790624109125155$

$t_c = 1156$

$\beta = 0.21114369501466276$

$\Phi = 2.751580662381676$

$\omega = 6.715542521994134$

2. Plot the synthetic signals and real time-series data with different colors in a figure

