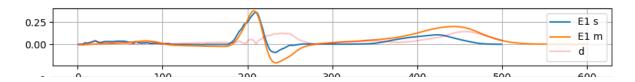
Time series y of channel E1 is shown in figure 1. This particular series was analyzed.



A fit to y and \dot{y} was made using a least square fit method (for more information see ipynb). The results for different polynominal grades are shown below.

For a grade > 11 the resulting solution settles into some kind of steady state. For a $grade \leq 5$ the solution oscillates heavily and in some cases converges to infinity. The solutions for grade = 6 or grade = 7 seem similar to the original time series to a certain point, where they also converge to infinity.

