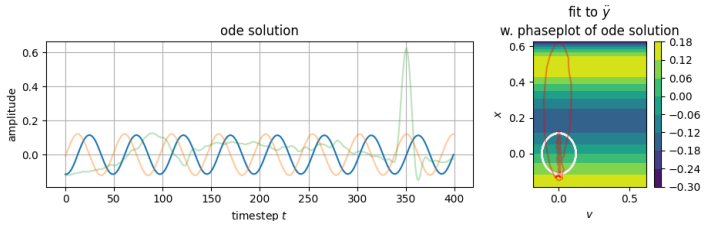
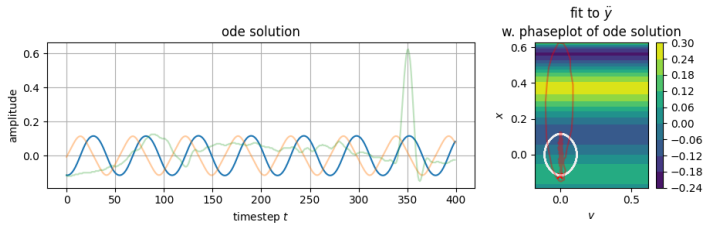
ode solution to fit of ECG I filtred cut (odd x, till p_2)



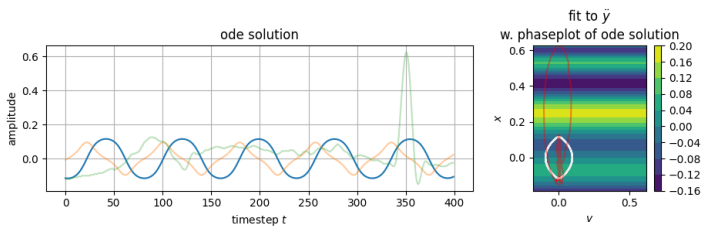
$$\dot{x} = v$$
$$\dot{v} = -\omega_0^2 x + q_3 x^3$$

ode solution to fit of ECG I filtred cut (odd x, till p_3)



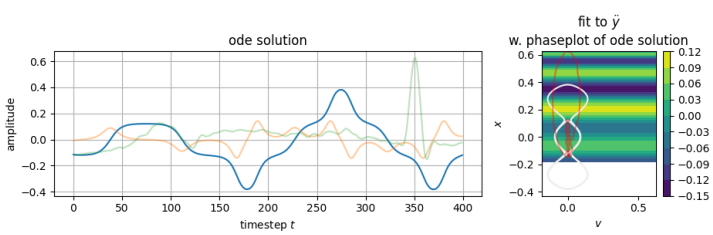
$$\dot{x} = v$$
$$\dot{v} = -\omega_0^2 x + q_3 x^3 + q_5 x^5$$

ode solution to fit of ECG I filtred cut (odd x, till p_5)



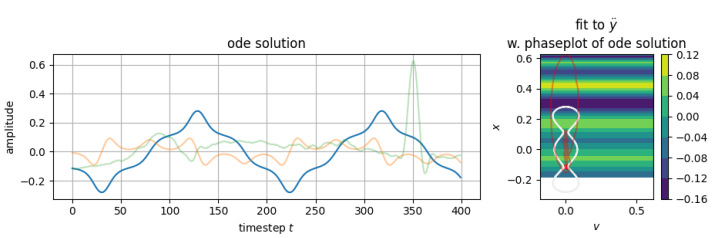
$$\dot{x} = v$$
$$\dot{v} = -\omega_0^2 x + q_3 x^3 + q_5 x^5 + q_7 x^7$$

ode solution to fit of ECG I filtred cut (odd x, till p_6)



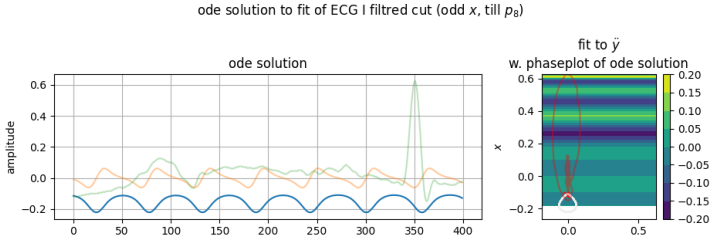
$$\dot{x} = v$$
$$\dot{v} = -\omega_0^2 x + q_3 x^3 + q_5 x^5 + q_7 x^7 + q_9 x^9$$

ode solution to fit of ECG I filtred cut (odd x, till p_7)



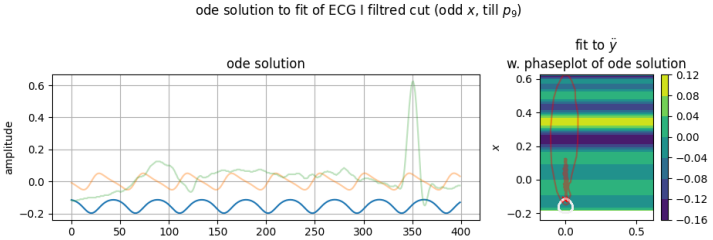
$$\dot{x} = v$$
$$\dot{v} = -\omega_0^2 x + q_3 x^3 + q_5 x^5 + q_7 x^7 + q_9 x^9 + q_{11} x^{11}$$

ode solution to fit of ECG I filtred cut (odd x, till p_8)



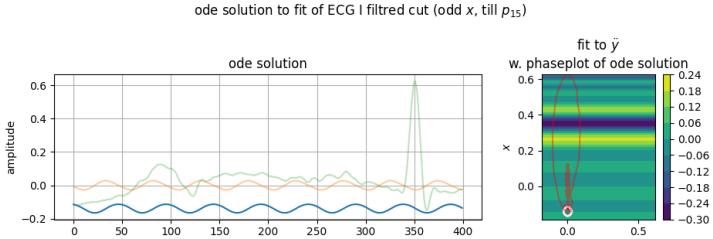
$$\dot{x} = v$$
$$\dot{v} = -\omega_0^2 x + q_3 x^3 + q_5 x^5 + q_7 x^7 + q_9 x^9 + q_{11} x^{11} + q_{13} x^{13}$$

ode solution to fit of ECG I filtred cut (odd x, till p_9)



$$\dot{x} = v$$
$$\dot{v} = \cdots + q_{15} x^{15}$$

ode solution to fit of ECG I filtred cut (odd x, till p_{15})



$$\dot{x} = v$$
$$\dot{v} = \cdots + q_{27} x^{27}$$

On the search for the right fit function…

$$\dot{x} = v$$
$$\dot{v} = -(\omega_0^2 + \sigma\Gamma(t;\sigma^2))x + \underbrace{q_0 v}_{= -0.1291 \text{ negative damping}} + q_3 x^3 + q_5 x^5 + q_7 x^7 + \cdots$$