

Damped Oscillator

$$y = A_o e^{-bx} \sin(\omega x + \delta) + C$$

$$\chi^2_{\text{reduced}} = \mathbf{0.40}$$

 δx  δy 

Parameter	Value	Uncertainty
A_o	1.444e-02	1.519e-04
b	1.643e-01	2.551e-03
ω	2.770e+00	2.708e-03
δ	1.193e+00	1.183e-02
C	-1.321e-02	2.863e-05

Underdamped Oscillator - 1. All magnets on top