Least squares fit of parabola $y(x) = \theta_0 + \theta_1 \cdot x + \theta_2 \cdot x^2$

least squares fit: $\theta_0 = 4.99 \pm 0.31$, $\theta_1 = 1.29 \pm 0.69$, $\theta_2 = -4.89 \pm 1.40$
$\chi^2 = 4.661$, ndof = 4, $\chi^2_{red} = 1.165$, $p = 0.324$

1σ error band
$y(1) = 1.394 \pm 1.420$
data