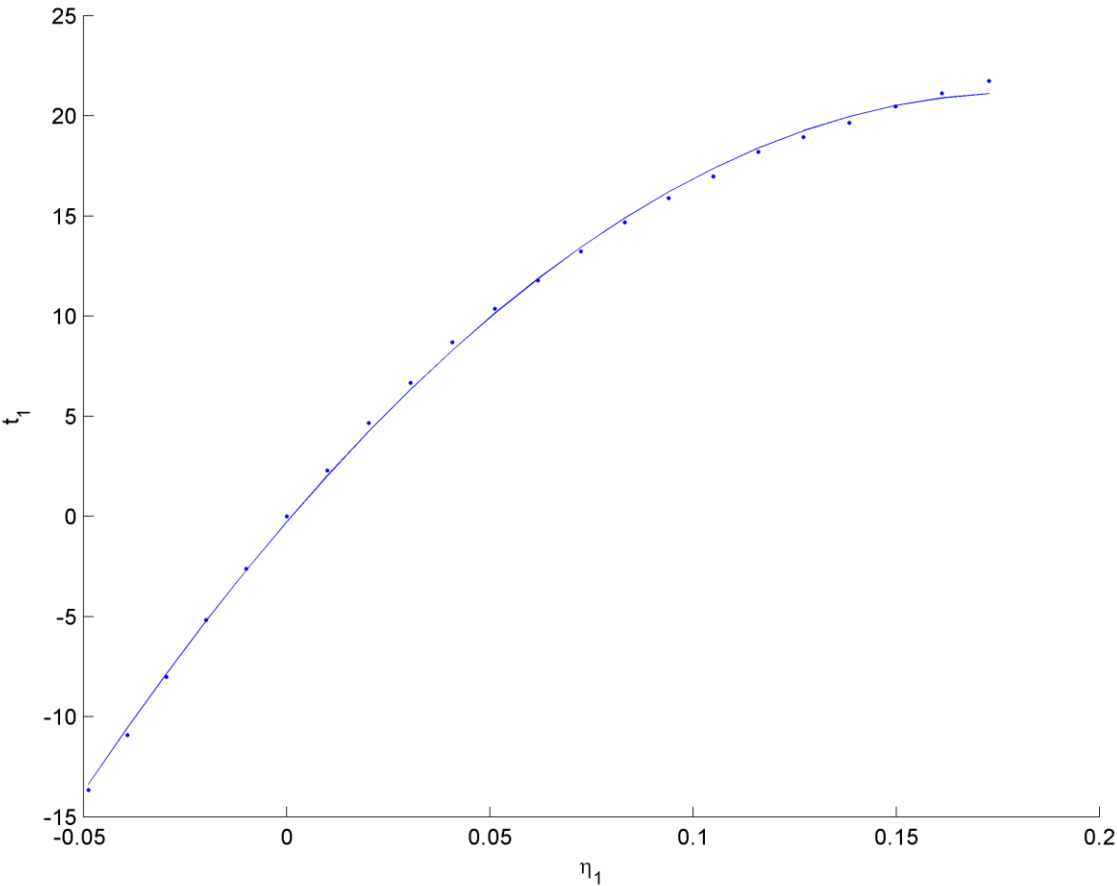
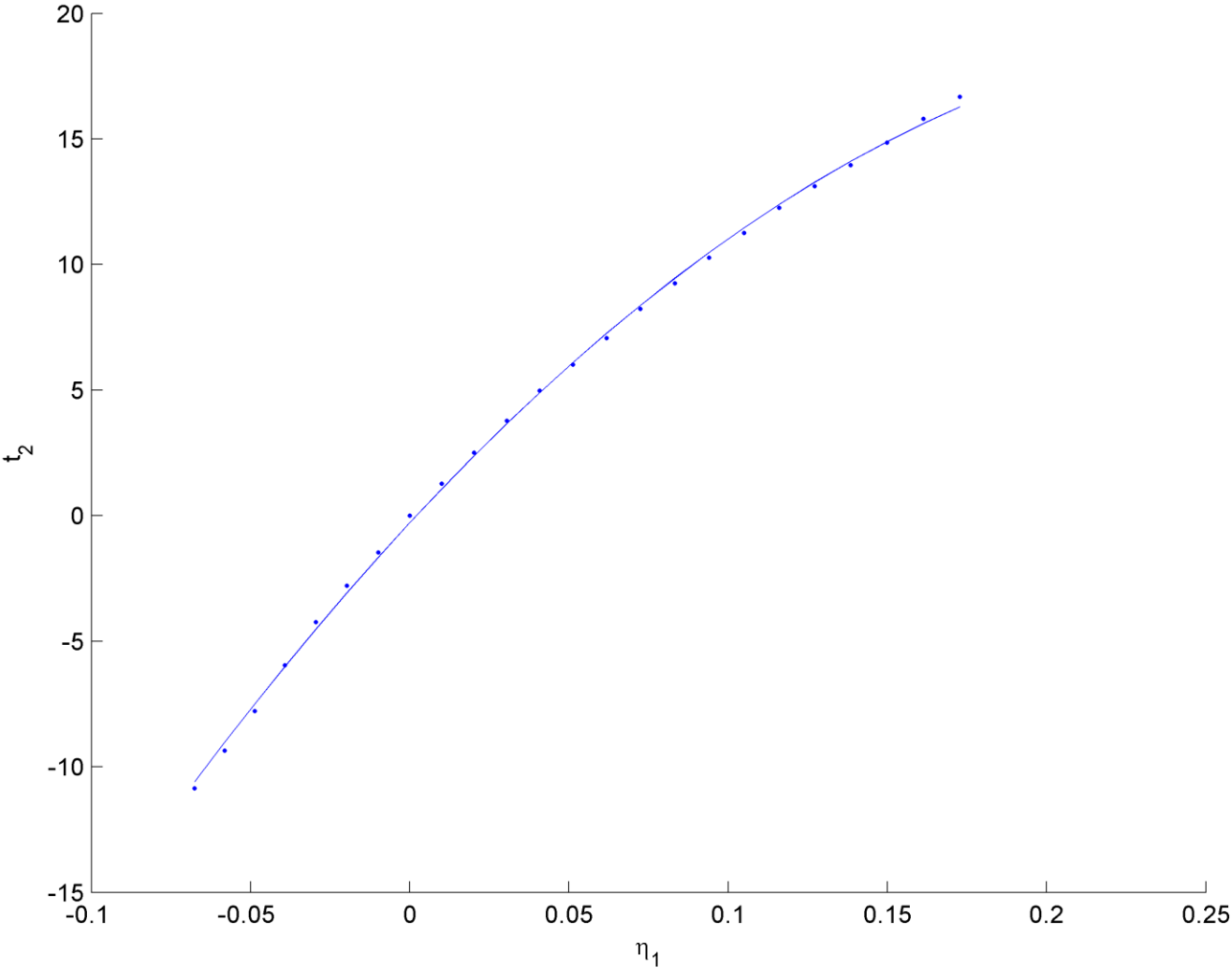


$$t_1(\eta_1) = \rho_0 \frac{\partial E}{\partial \eta_1} \Big|_{\eta_2=\eta_3=\eta_4=\eta_5=\eta_6=0} = \frac{C_{111}\eta_1^2}{2} + C_{11}\eta_1 \quad \left. \vphantom{\frac{\partial E}{\partial \eta_1}} \right\} F = \begin{bmatrix} 1+\delta & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

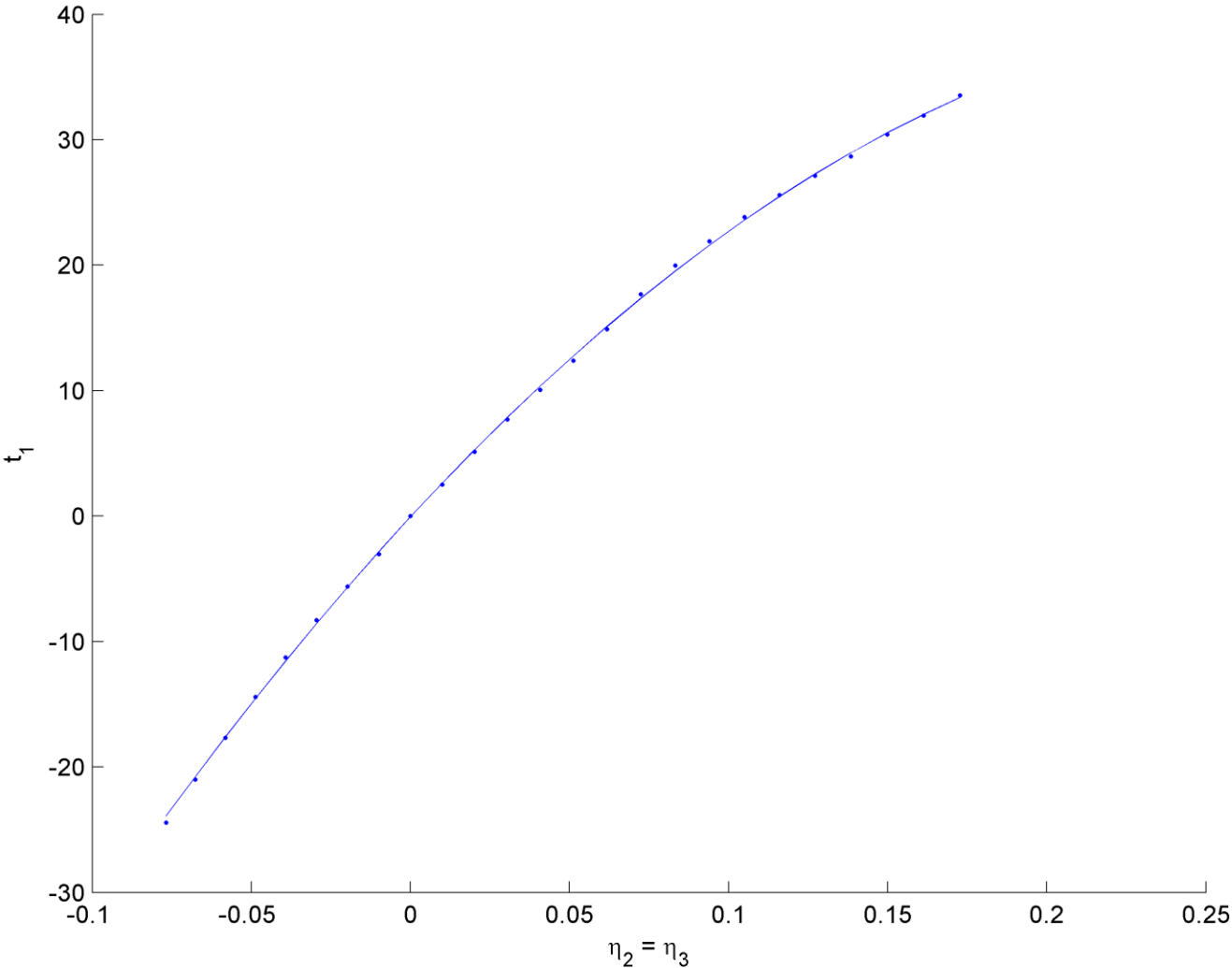


$$t_2(\eta_1) = \rho_0 \frac{\partial E}{\partial \eta_2} \Big|_{\eta_2=\eta_3=\eta_4=\eta_5=\eta_6=0} = \frac{C_{112}\eta_1^2}{2} + C_{12}\eta_1 \quad \left. \vphantom{\frac{\partial E}{\partial \eta_2}} \right\} \\ F = \begin{bmatrix} 1+\delta & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

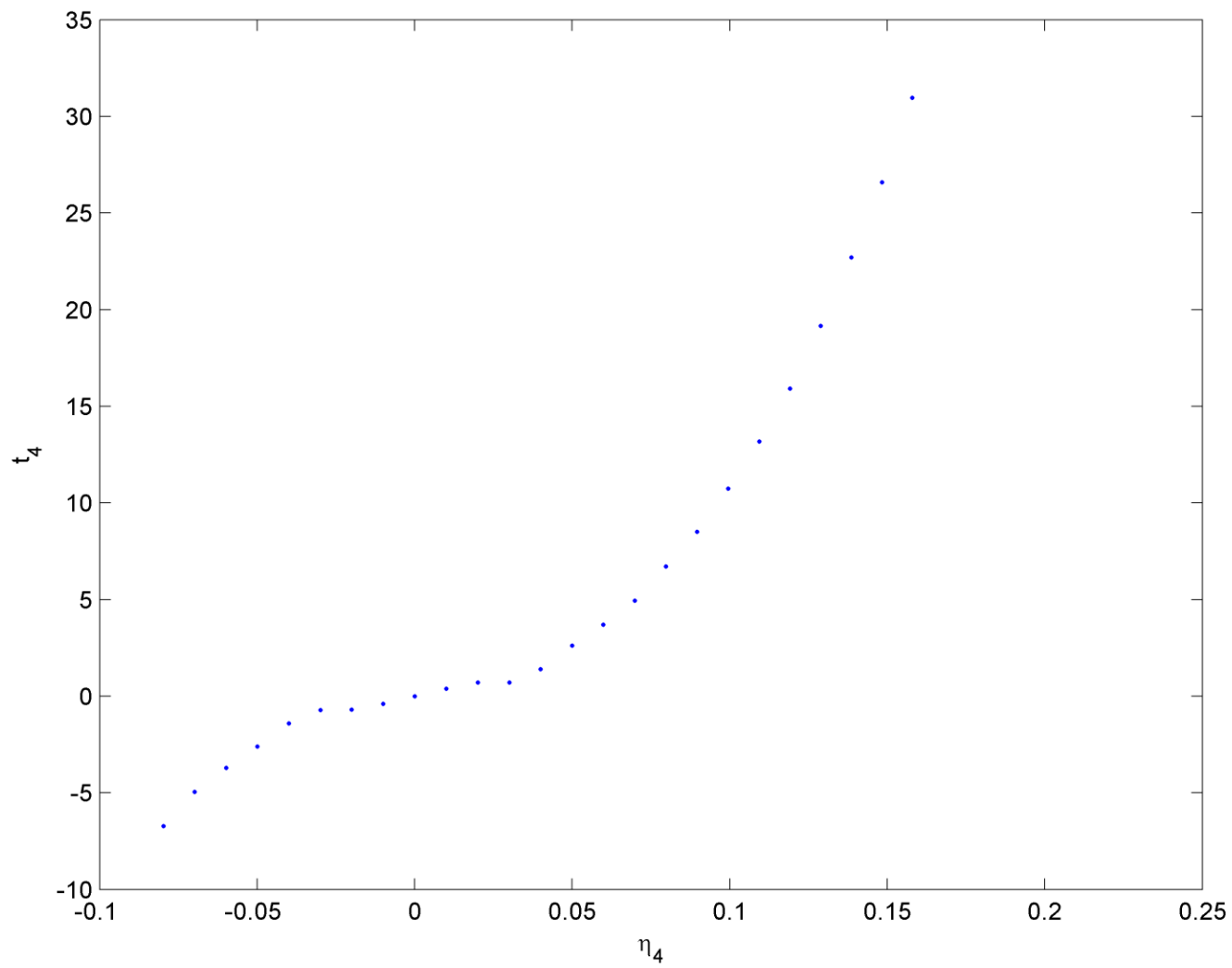


$$t_1\left(\eta_2,\eta_3\right)=\rho_0\frac{\partial E}{\partial \eta_1}\bigg|_{\substack{\eta_1=\eta_4=\eta_5=\eta_6=0\\ \eta_2=\eta_3}}=C_{12}\eta_3+C_{12}\eta_2+C_{123}\eta_2\eta_3+C_{112}\frac{\eta_2^2}{2}+C_{112}\frac{\eta_3^2}{2}$$

$$\left. \begin{aligned} \mathbf{F} = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1+\delta & 0 \\ 0 & 0 & 1+\delta \end{bmatrix} \end{aligned} \right\}$$

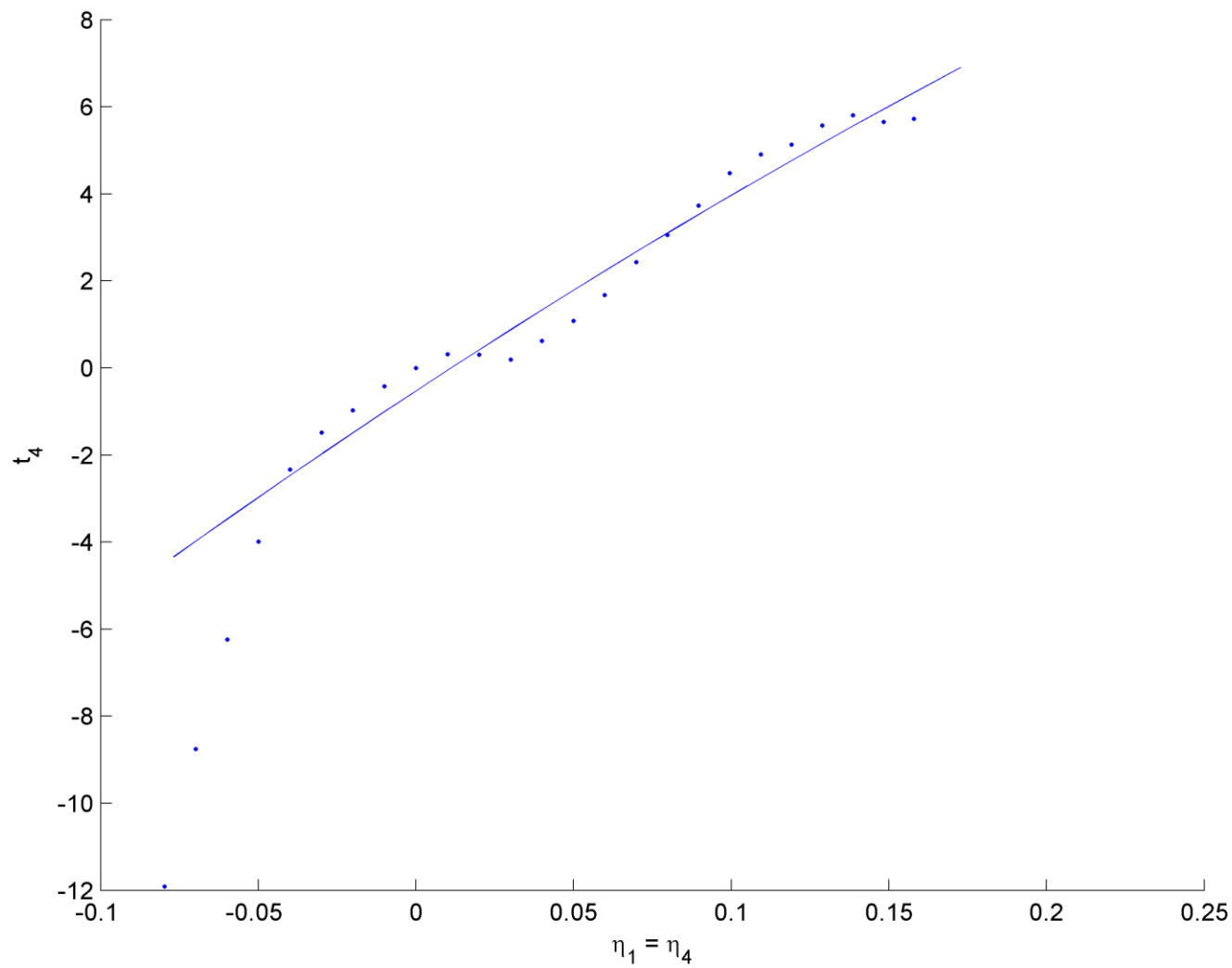


$$\left. \begin{aligned} t_4(\eta_4) &= \rho_0 \frac{\partial E}{\partial \eta_4} \Big|_{\eta_1=\eta_2=\eta_3=\eta_5=\eta_6=0} = C_{44} \eta_4 \\ \mathbf{F} &= \begin{bmatrix} 1 & 0 & 0 \\ 0 & \sqrt{1-\delta^2} & \delta \\ 0 & \delta & \sqrt{1-\delta^2} \end{bmatrix} \end{aligned} \right\}$$



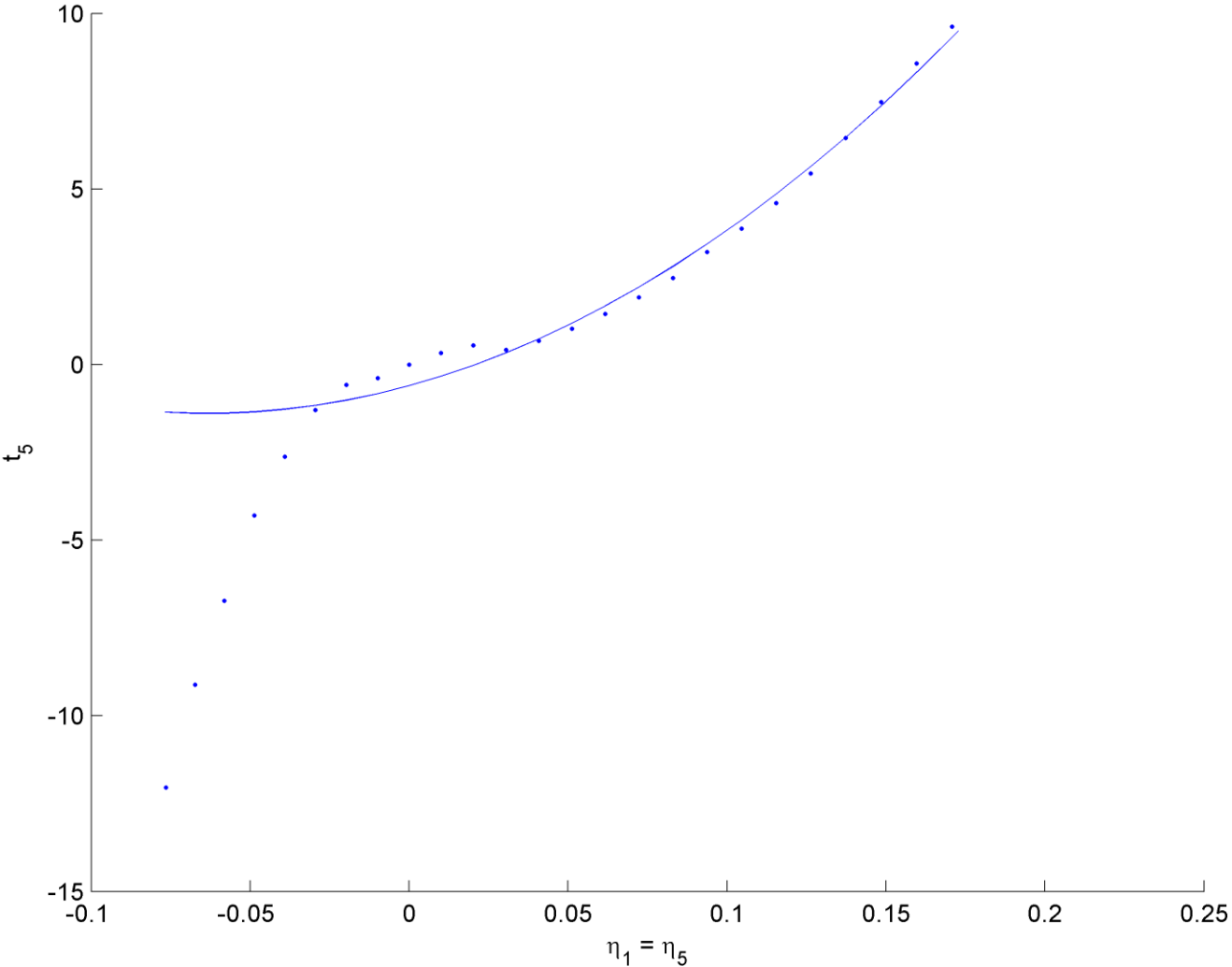
$$t_4(\eta_1, \eta_4) = \rho_0 \frac{\partial E}{\partial \eta_4} \bigg|_{\substack{\eta_2 = \eta_3 = \eta_5 = \eta_6 = 0 \\ \eta_1 = \eta_4}} = C_{44} \eta_4 + C_{144} \eta_1 \eta_4$$

$$\mathbf{F} = \left[ \begin{array}{ccc} \frac{\delta}{2} + \sqrt{\delta \sqrt{1 - \delta^2} - \frac{3\delta^2}{4} + 1} & 0 & 0 \\ 0 & \sqrt{1 - \delta^2} & \delta \\ 0 & \delta & \sqrt{1 - \delta^2} \end{array} \right]$$



$$t_5(\eta_1, \eta_5) = \rho_0 \frac{\partial E}{\partial \eta_5} \Big|_{\substack{\eta_2 = \eta_3 = \eta_4 = \eta_6 = 0 \\ \eta_1 = \eta_5}} = C_{44} \eta_5 + C_{155} \eta_1 \eta_5$$

$$\left. \begin{aligned} \mathbf{F} = \begin{bmatrix} \frac{\delta}{2} + \sqrt{\delta \sqrt{1 - \delta^2} - \frac{3\delta^2}{4} + 1} & 0 & \delta \\ 0 & 1 & 0 \\ \delta & 0 & \sqrt{1 - \delta^2} \end{bmatrix} \end{aligned} \right\}$$



$$t_4(\eta_4, \eta_5, \eta_6) = \rho_0 \frac{\partial E}{\partial \eta_4} \bigg|_{\substack{\eta_1 = \eta_2 = \eta_3 = 0 \\ \eta_4 = \eta_5 = \eta_6}} = C_{44} \eta_4 + C_{456} \eta_5 \eta_6$$

$$\mathbf{F} = \left[ \begin{array}{ccc} \sqrt{1-2\delta^2} & \delta & \delta \\ \delta & \sqrt{1-2\delta^2} & \delta \\ \delta & \delta & \sqrt{1-2\delta^2} \end{array} \right]$$

