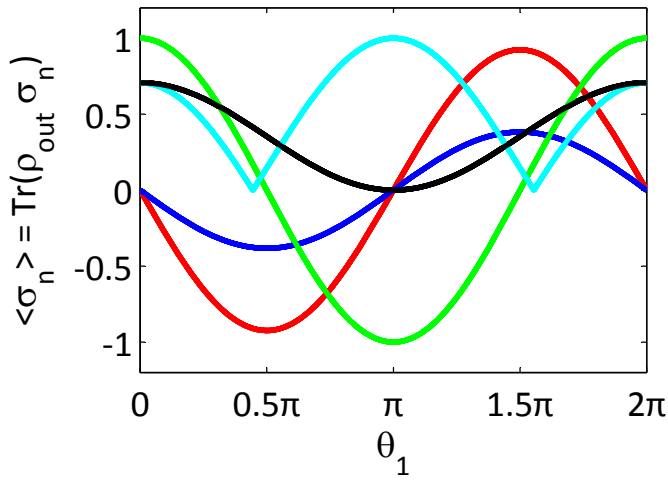
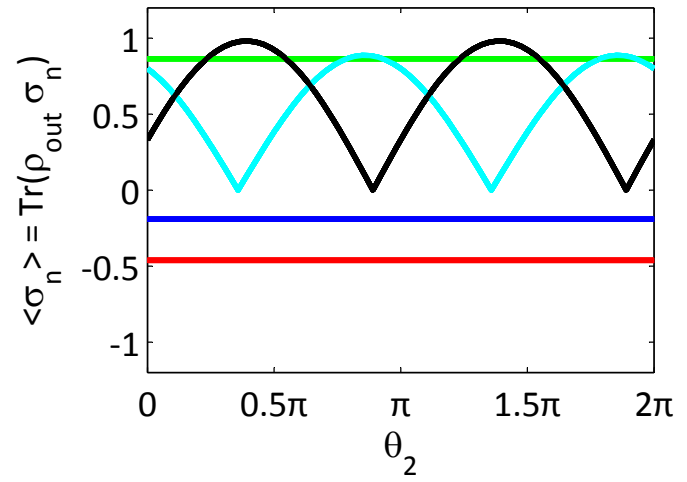


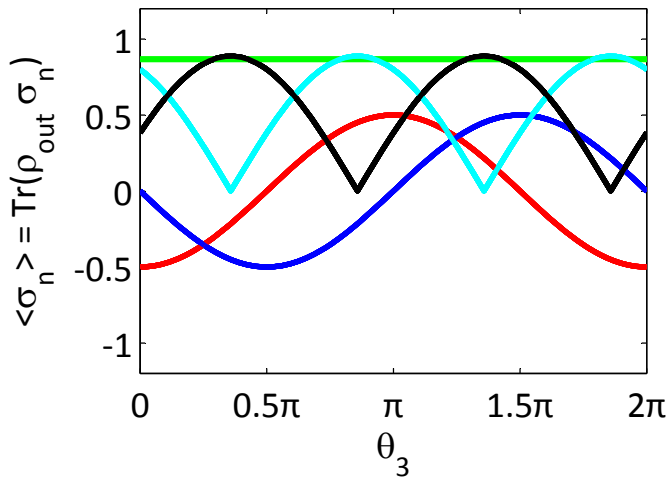
$$\theta_2 = \pi/8, \theta_3 = \pi/8$$



$$\theta_1 = \pi/6, \theta_3 = \pi/8$$



$$\theta_1 = \pi/6, \theta_2 = \pi/8$$



$$\text{Tr}(\rho_{\text{out}}^0 \sigma_x)$$

$$\text{Tr}(\rho_{\text{out}}^0 \sigma_y)$$

$$\text{Tr}(\rho_{\text{out}}^0 \sigma_z)$$

$$\text{Tr}(\rho_{\text{out}}^+ \sigma_x)$$

$$\text{Tr}(\rho_{\text{out}}^+ \sigma_y)$$

$$\rho_{\text{out}}^0 = U \rho^0 U'$$

$$\rho_{\text{out}}^+ = U \rho^+ U'$$

$$U = e^{-i\theta_3 I_z} e^{i\theta_1 I_y} e^{-i\theta_2 I_z} =$$

$$\begin{bmatrix} \cos(\theta_1/2) & \sin(\theta_1/2)e^{i\theta_2} \\ -\sin(\theta_1/2)e^{i\theta_3} & \cos(\theta_1/2)e^{i(\theta_2+\theta_3)} \end{bmatrix}$$