9) Sheet 07

b)
$$\frac{\partial \mathcal{L}}{\partial \omega_{13}} = \frac{\partial \mathcal{L}}{\partial y} \cdot \frac{\partial y}{\partial a_3} \cdot \frac{\partial q_3}{\partial z_3} \cdot \frac{\partial z_3}{\partial \omega_{13}} = (\gamma - 1) \cdot 1 \cdot z_3 \cdot x_1$$

c)
$$\frac{\partial U}{\partial \ell} = \frac{\partial V}{\partial \omega_{12}} \cdot \frac{\partial U}{\partial \ell} + \frac{\partial V}{\partial \omega_{24}} \cdot \frac{\partial U}{\partial \ell} \cdot \frac{\partial U}{\partial \omega_{24}}$$

Lower

cross correlation of x and s