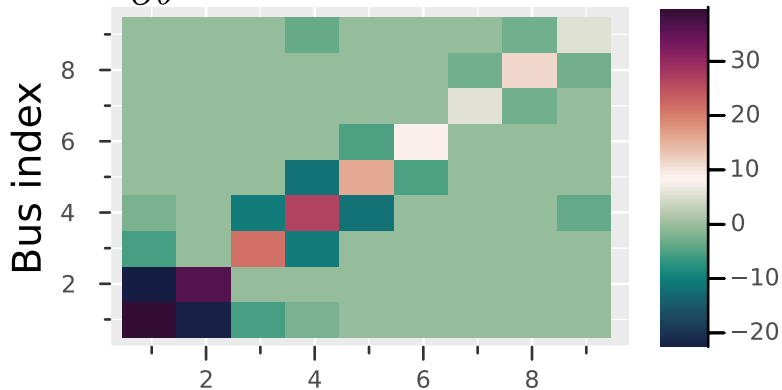
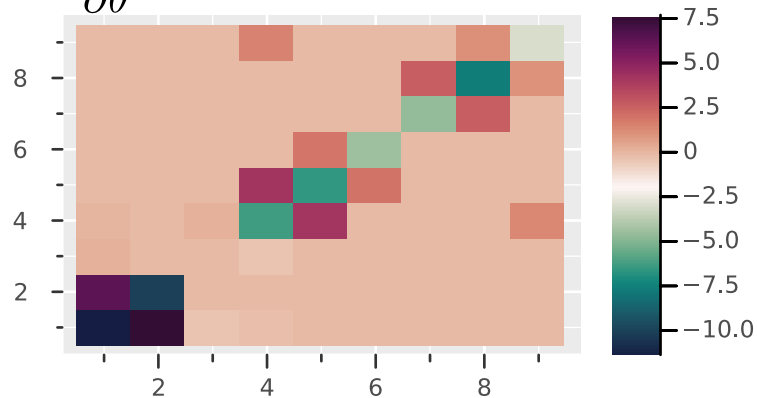


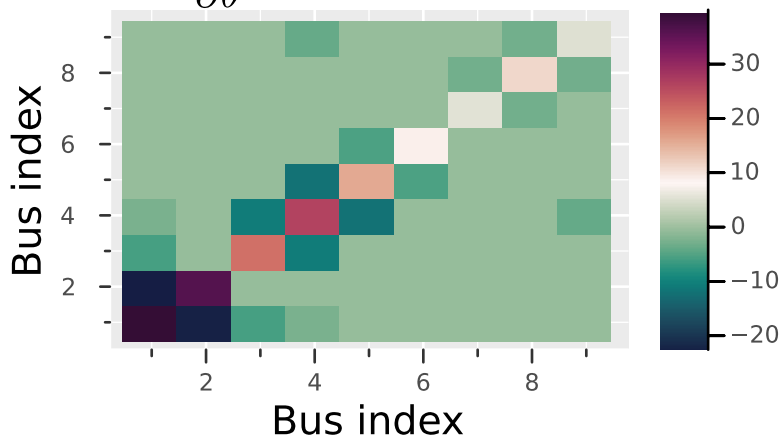
$\frac{\partial p}{\partial \theta}$ (At power flow sol.)



$\frac{\partial q}{\partial \theta}$ (At power flow sol.)



Est. $\frac{\partial p}{\partial \theta}$ Rel. Error:0.008%



Est. $\frac{\partial q}{\partial \theta}$ Rel. Error:0.011%

