Equations

https://camillejr.github.io/science-docs/

1 PC-transport

$$\rho \frac{D\phi}{Dt} = \mathbb{D}\nabla^2\phi + \boxed{S_\phi}$$

$$S_\phi(\phi) = f(T, p, Y_1, \ldots, Y_{N_S-1})$$

$$\rho \frac{D\boldsymbol{\Phi}}{Dt} = -\nabla(\boldsymbol{j}_\Phi) + \boxed{\boldsymbol{s}_\Phi}$$

$$\rho \frac{D\boldsymbol{z}}{Dt} = -\nabla(\boldsymbol{j}_z) + \boxed{\boldsymbol{s}_z}$$

2 Regression

$$\boldsymbol{\Phi} \approx f_\Phi(\boldsymbol{Z}_q)$$

$$\boldsymbol{\Phi} \approx N(0, \sigma_n^2)$$

$$\boldsymbol{\Phi} = [T, p,]$$