



$f_1 = \nabla^2 \mathbf{u}$ $f_2 = Sc^{-1}(\nabla \rho \cdot \nabla) \mathbf{u}$ $f_3 = Sc^{-1}(\mathbf{u} \cdot \nabla) \nabla \rho$ $f_4 = \frac{1}{2} Sc^{-1} \mathbf{u} \cdot \nabla^2 \rho$