

使用形式:

```
# Initial linear slab viscosity setup
stokes = uw.systems.Stokes(    velocityField = velocityField,
                               pressureField = pressureField,
                               voronoi_swarm = swarm,
                               conditions     = periodicBC,
                               fn_viscosity  = viscosityMapFn,
                               fn_bodyforce  = buoyancyFn )

# Create solver & solve
solver = uw.systems.Solver(stokes)
solver.solve(nonLinearIterate=True)
```

function:

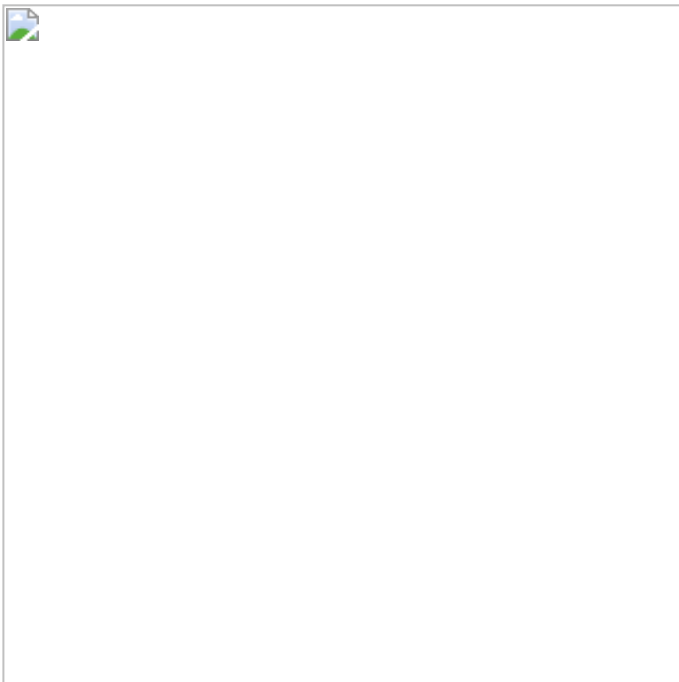
`underworld.systems.Solver`

class:

1-`underworld.systems.AdvectionDiffusion`: advection-diffusion equation的离散 representation;

uses the Streamline Upwind Petrov Galerkin SUPG method to integrate through time: 随时间积分

Underworld uses the AdvectionDiffusion system to solve the temperature field given heat transport through the velocity field



2-`underworld.systems.Stokes`:

stokes流体方程的离散representation, 混合有限元方法构造线性方程系统, 这样可以用 system.Solver。The underlying element types are determined by the supporting mesh used for the ‘velocityField’ and ‘pressureField’ parameters。

3-underworld.systems.TimeIntegration

4-underworld.systems.SwarmAdvectord