看到了两种选择yield的方式，但都和第二不变量有关。

1.

```
# first define strain rate tensor

strainRateFn = fn.tensor.symmetric( velocityField.fn_gradient )
strainRate_2ndInvariantFn = fn.tensor.second_invariant(strainRateFn)

# now compute a viscosity assuming yielding

min_viscosity = 0.001

yieldingViscosityFn =  0.5 * yieldStressFn /
(strainRate_2ndInvariantFn+1.0e-18)

viscosityFn = fn.exception.SafeMaths(
fn.misc.max(fn.misc.min(yieldingViscosityFn,

backgroundViscosityFn),
                                                    min_viscosity))
```

2. 板片上的yield，给非核心的板片。

```
upperMantleViscosity =    1.0
lowerMantleViscosity =  100.0
slabViscosity        =  500.0
coreViscosity        =  500.0

# The yeilding of the upper slab is dependent on the strain rate.
strainRate_2ndInvariant = fn.tensor.second_invariant(
                            fn.tensor.symmetric(
                            velocityField.fn_gradient ))
```

```
cohesion = 0.06
vonMises = 0.5 * cohesion / (strainRate_2ndInvariant+1.0e-18)

# The upper slab viscosity is the minimum of the 'slabViscosity' or the 'vonMises'
#safeMaths保证不被零除，以及检查其他错误。
slabYieldvisc = fn.exception.SafeMaths( fn.misc.min(vonMises, slabViscosity) )
```