Test Case 4:

Josh’s Grain

Beta\_region:

E = 40GPa

v = 0.33

a = 1e-3

k=15

alpha\_region:

E = 117GPa

v = 0.342

a=8.6e-6

k=6.7

Skeleton: 40 x 40

Index: 0.9948

Temperature and Force field selected

Heat Eqn and Force balance

Boundary conditions:

LHS: 0 degrees

RHS: 1000 degrees

RHS: x,y is fixed at 0

Tolerance: 1e-13

Iterations: 1000

Initializer: T: 0.0, cx: 0.0, cy: 0.0