

## Steps

1. Parameters set up
2. Initial condition set up (grain and boundary conditions)  
(all data in  $t=0$  obtained)
3. Calculate derivative function of phase field parameter for space
4. Calculate derivative function of anisotropy for angle
5. Calculate derivative function of temperature for space
6. Calculate anisotropy of next time step
7. Calculate phase field parameter of the next time step
8. Calculate temperature of the next time step
9. Repeat 3-8 until reach the final time step