# **Phi C T Solvers**

## **Solvers for phase-field**

### **Standard Allen-Cahn equation**

### **Cahn-Hilliard equation**

### **Pair-wise Allen-Chan equation**

## **Solvers for concentration-field**

### **Mass-conserved equation with smooth boundary**

### **Phase-concentration equation**

### **Grand-potential equation with smooth boundary**

If , ,

## **Solvers for temperature-field**

### **Standard temperature equation**