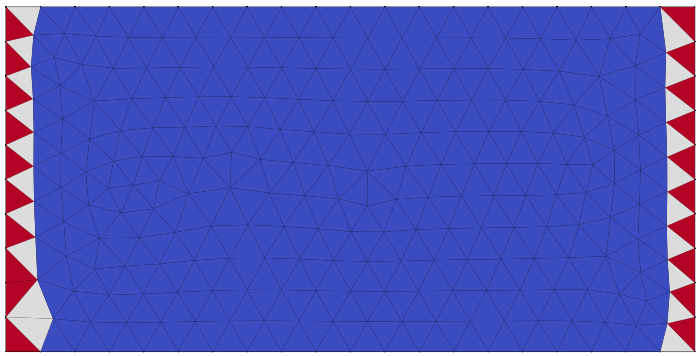
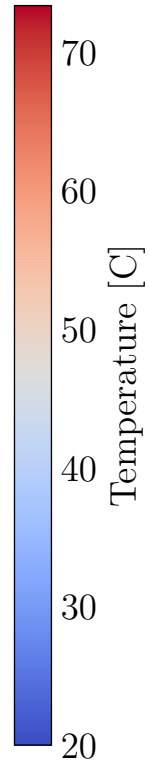
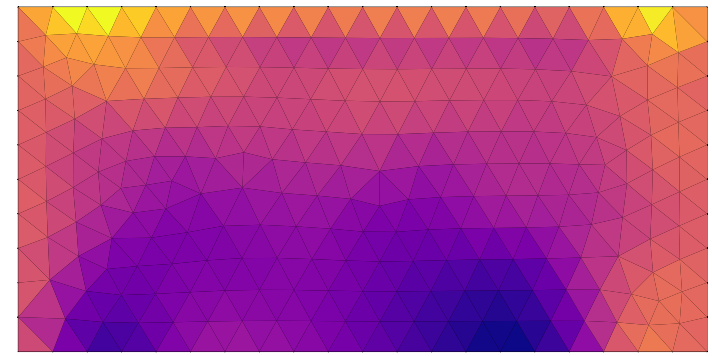
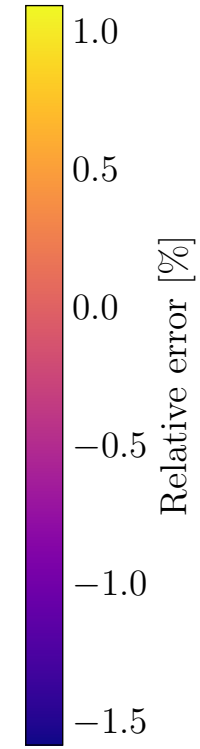
a) Initial condition $t = 0$ s



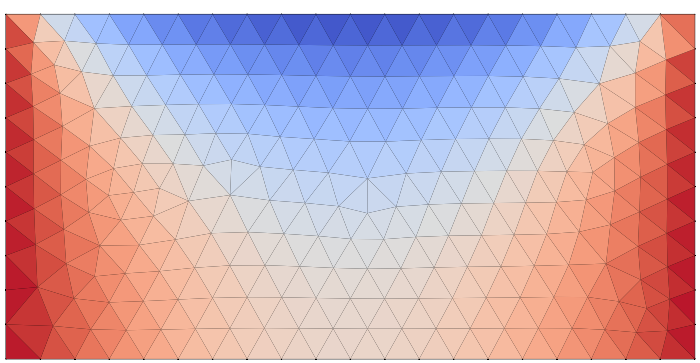


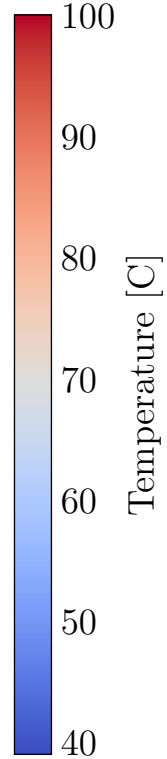
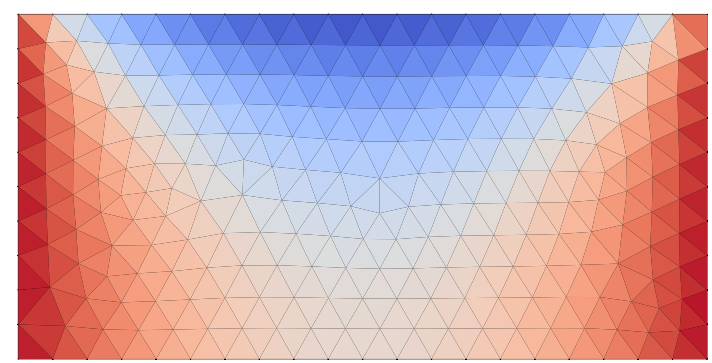
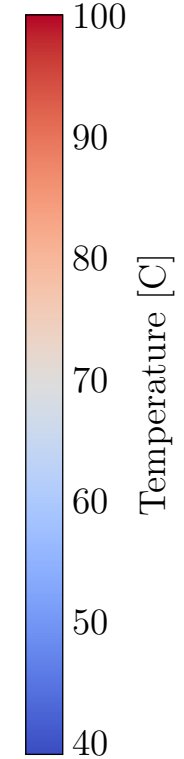
b) Relative error $t = 0.99$ s





c) PI-GNN $t = 0.99$ s





d) Analytical $t = 0.99$ s