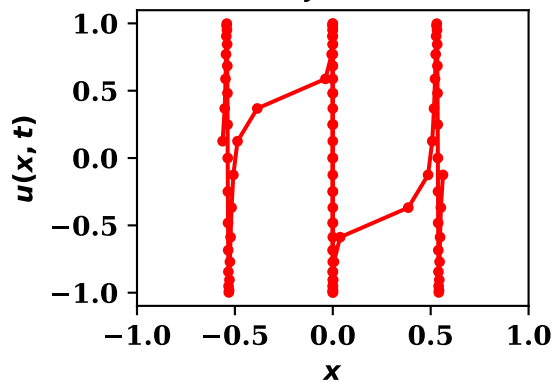
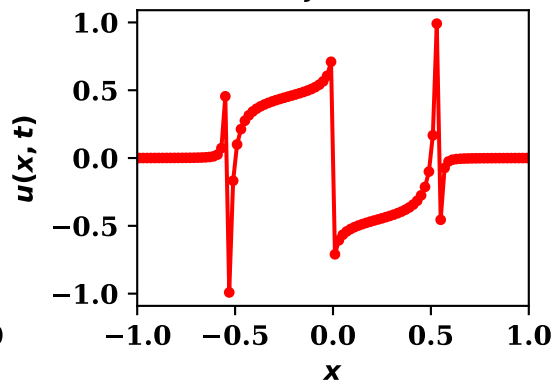
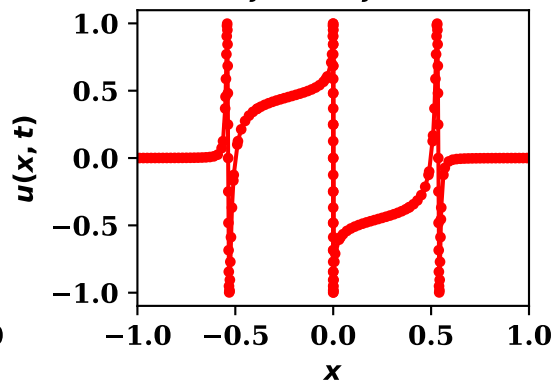
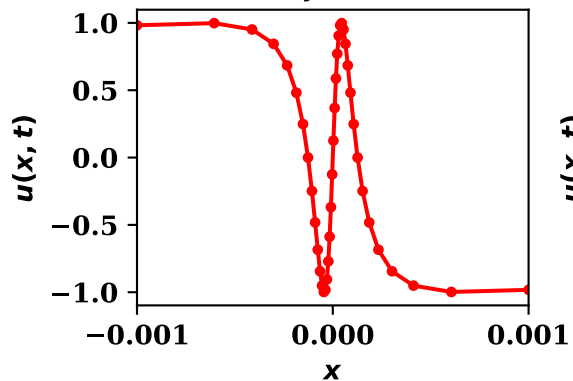
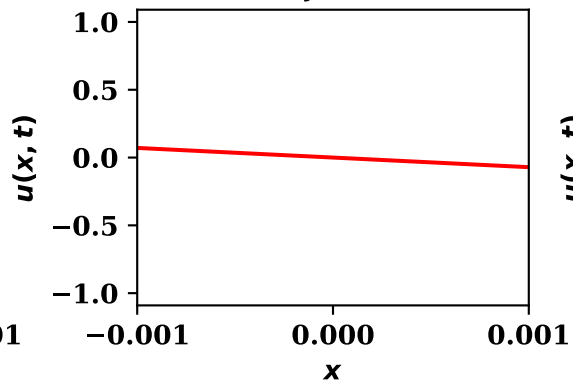


Only  $\mathbf{X}_j$  particlesOnly  $\mathbf{Y}_j$  particlesBoth  $\mathbf{X}_j$  and  $\mathbf{Y}_j$  particlesOnly  $\mathbf{X}_j$  particlesOnly  $\mathbf{Y}_j$  particlesBoth  $\mathbf{X}_j$  and  $\mathbf{Y}_j$  particles