DESCRIPTION

 BHS

$$Korteweg - deVries(KdV)equation u_t = -uu_x - u_{xxx}. x \in [-20, 20], t \in [0, 40] u(0, x) = -\sin(\pi x/20) u(t, -20) = u(t, 20) u_x(t, -20) = u_x(t, 20) u_{xx}(t, -20) = u_{xx}(t, 20)$$

$$Korteweg - deVries(KdV) equation 2 \\ u(0,x) = \cos(-\pi x/20)$$

REFERENCES

[1] Maziar Raissi, Paris Perdikaris. Deep Hidden Physics Models: Deep Learning of Nonlinear Partial Differential Equations.