(a): Initialization

(b): 1000 Iterations

(c): 5000 Iterations

(d): 10000 Iterations

(e): 20000 Iterations

(f): 40000 Iterations

(g): End of Adam algorithm

(h): End of Training

Volumetric Water Content $\theta$ [-]

Depth $z$ [cm]

True PINNs

$\bullet$ $t = 0$

$\times$ $t = 0.1$

$\ast$ $t = 0.5$

$\Delta$ $t = 1$

$+$ $t = 3$

$\diamond$ $t = 5$

$+$ $t = 10$ [h]