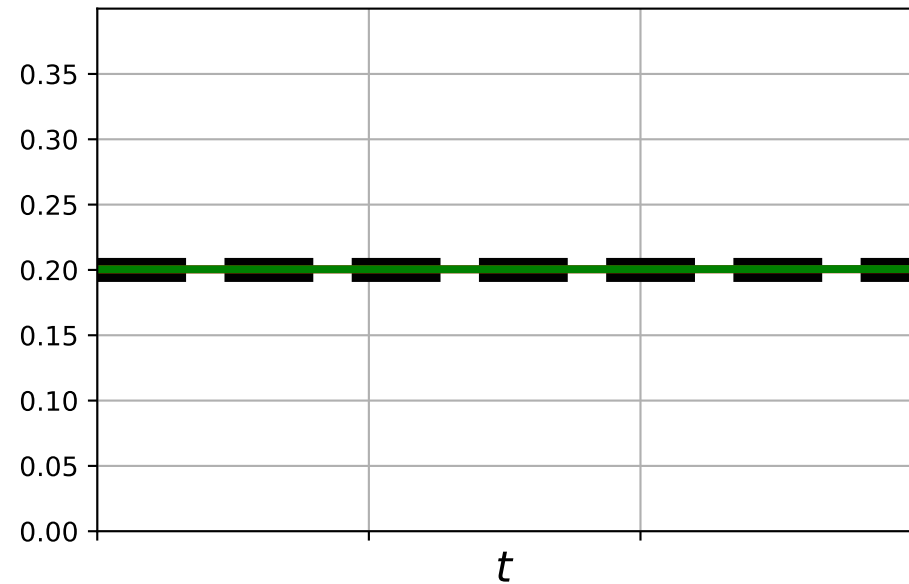


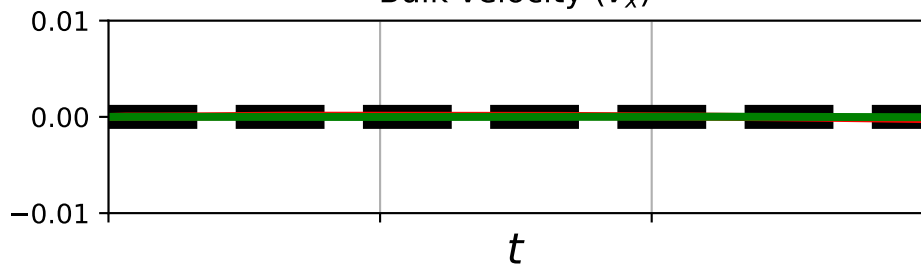
Sum of two Maxwellian distributions ($\Lambda = 5.00$, $\gamma = -3.00$)

Trained for 4000 epochs

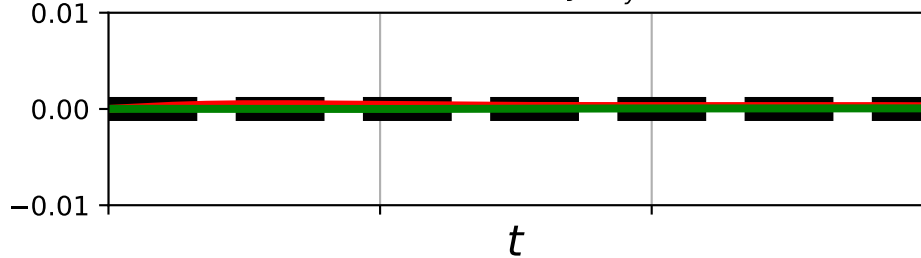
Mass density (ρ)



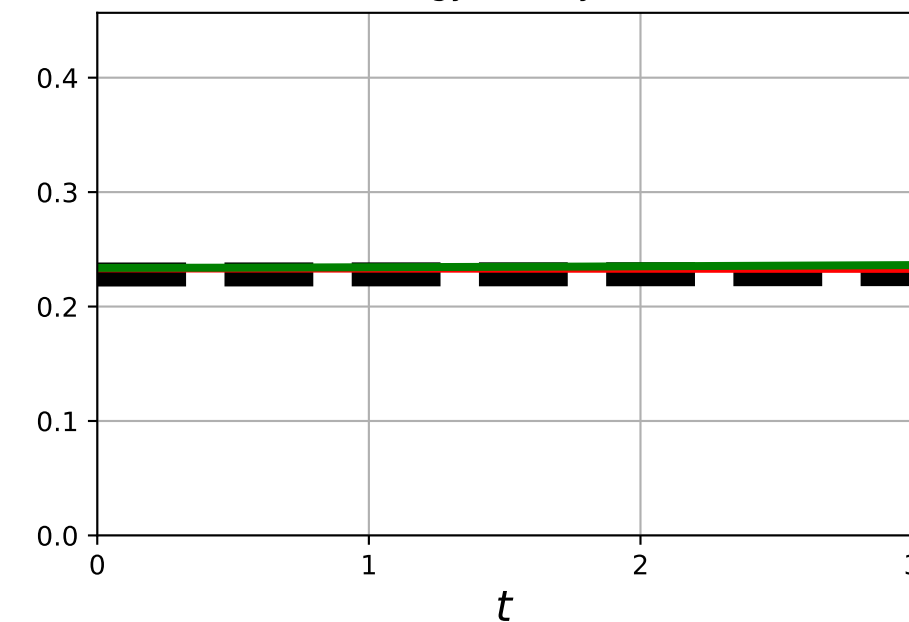
Bulk velocity (v_x)



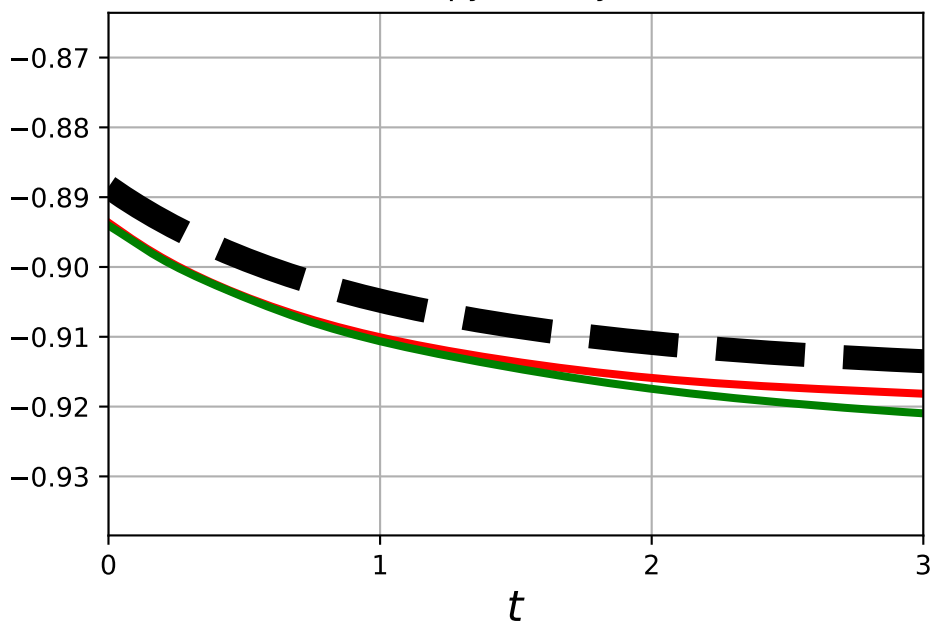
Bulk velocity (v_y)



Energy density (E)



Entropy density (S)



Legend: Target (black dashed line), opPINN (red solid line), PINN (ours) (green solid line)