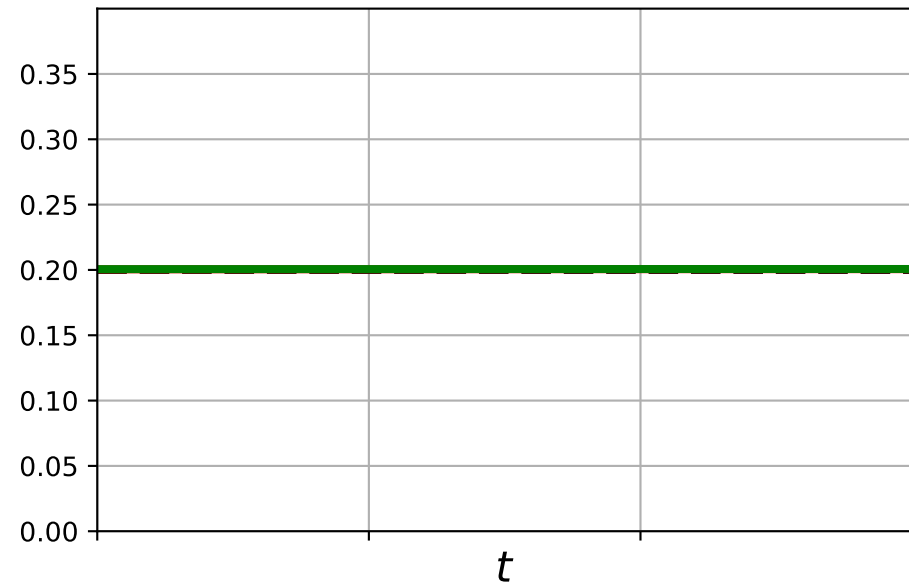


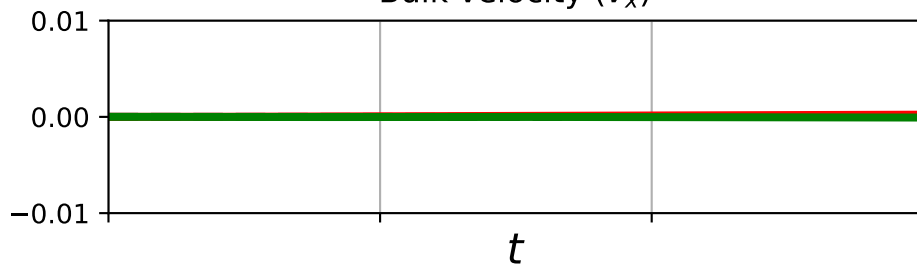
Sum of two Maxwellian distributions ($\Lambda = 0.06$, $\gamma = 1.00$)

Trained for 2000 epochs

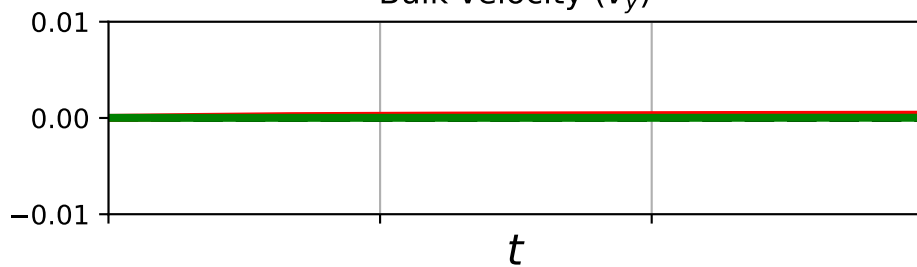
Mass density (ρ)



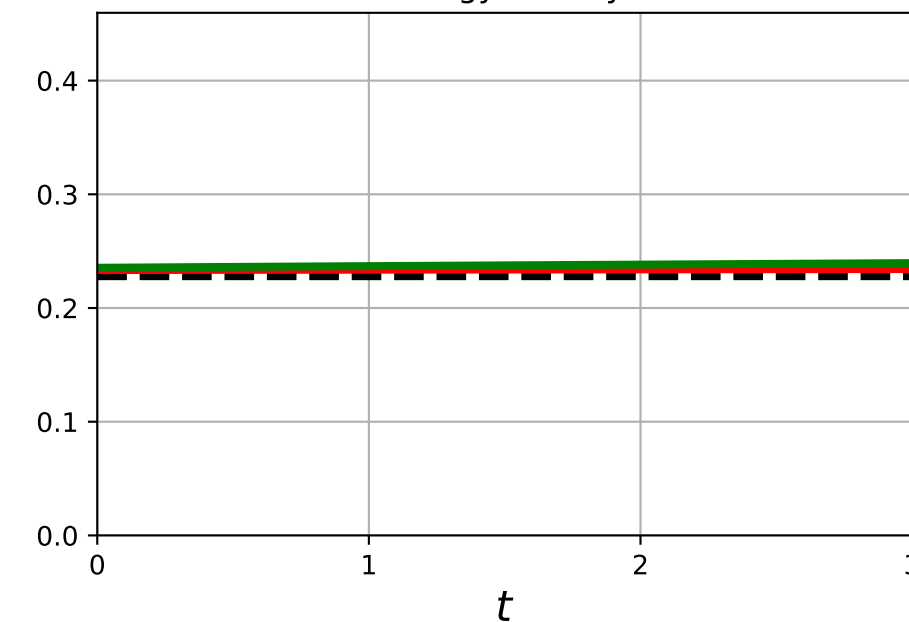
Bulk velocity (v_x)



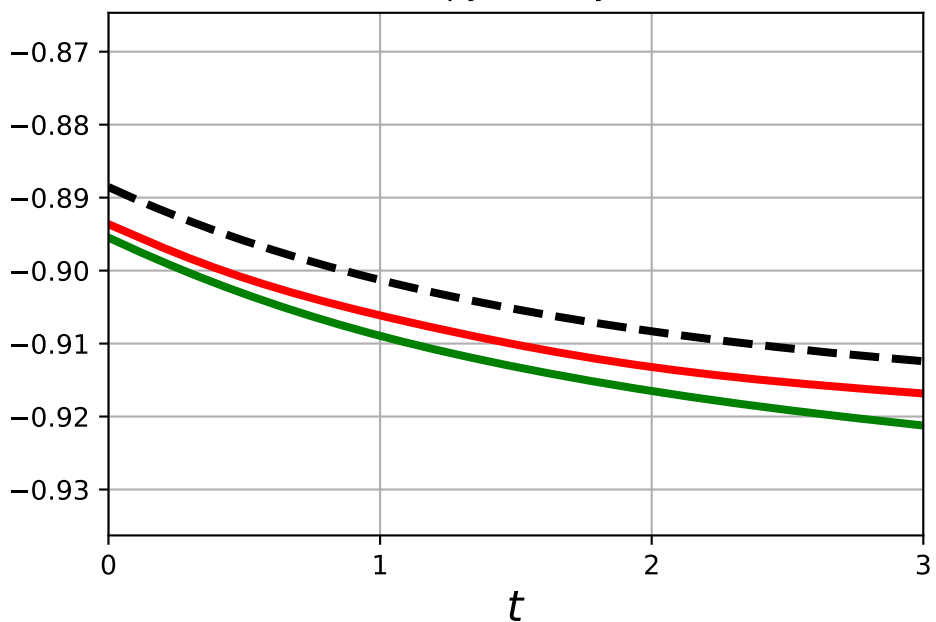
Bulk velocity (v_y)



Energy density



Entropy density (H)



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