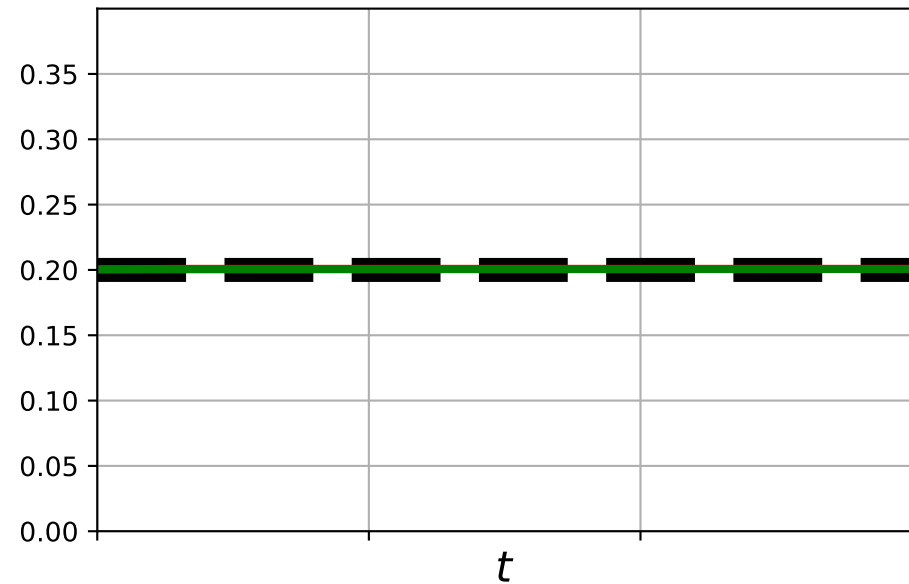


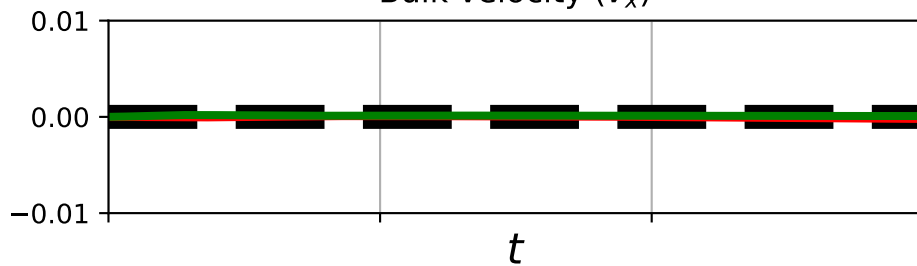
Sum of two Maxwellian distributions ($\Lambda = 5.00$, $\gamma = -3.00$)

Trained for 3000 epochs

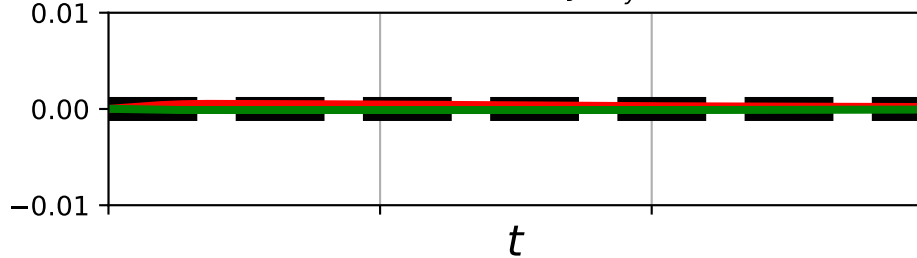
Mass density (ρ)



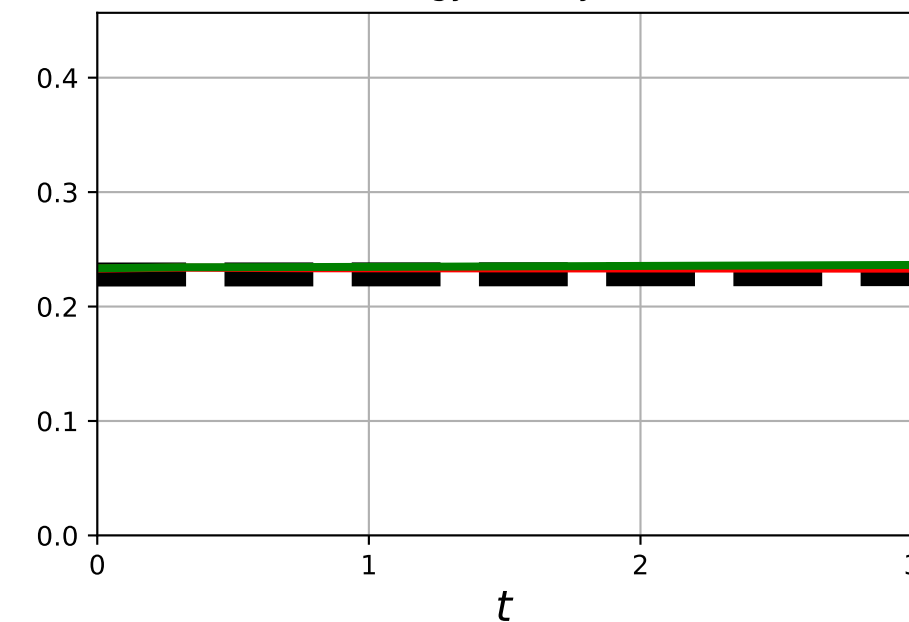
Bulk velocity (v_x)



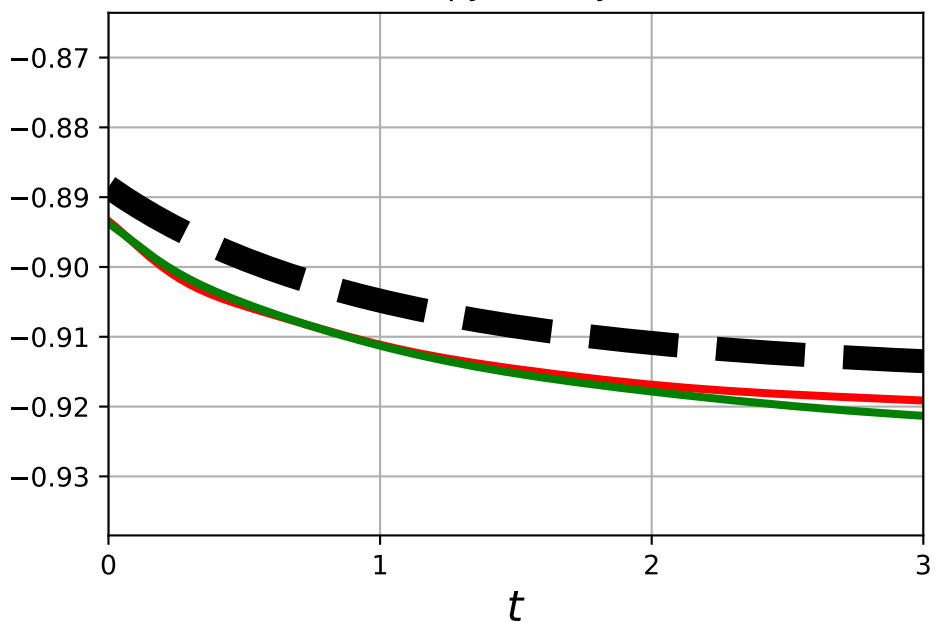
Bulk velocity (v_y)



Energy density (E)



Entropy density (S)



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