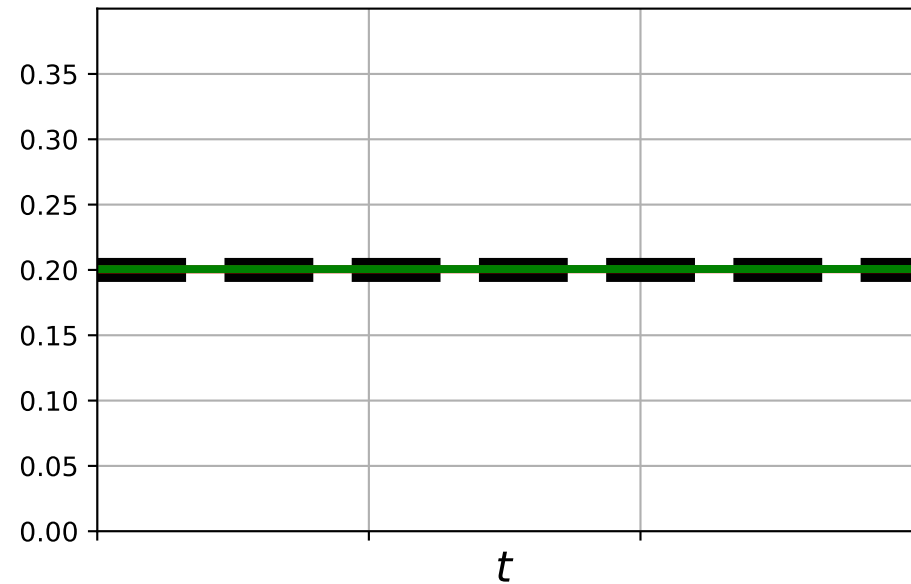


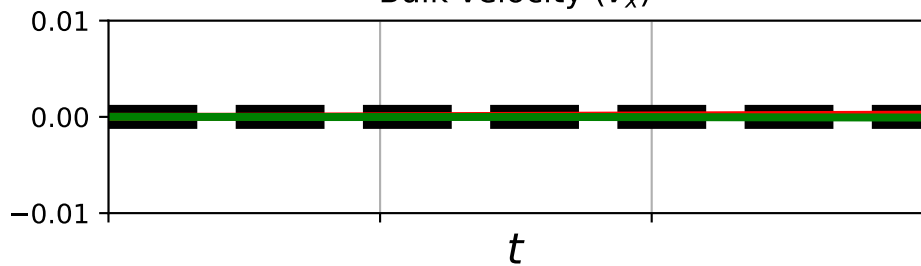
Sum of two Maxwellian distributions ($\Lambda = 0.06$, $\gamma = 1.00$)

Trained for 2000 epochs

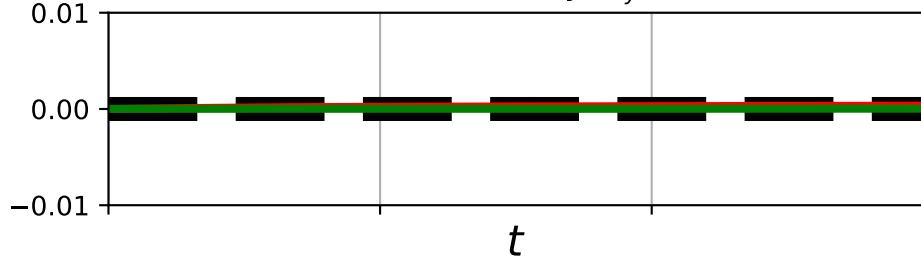
Mass density (ρ)



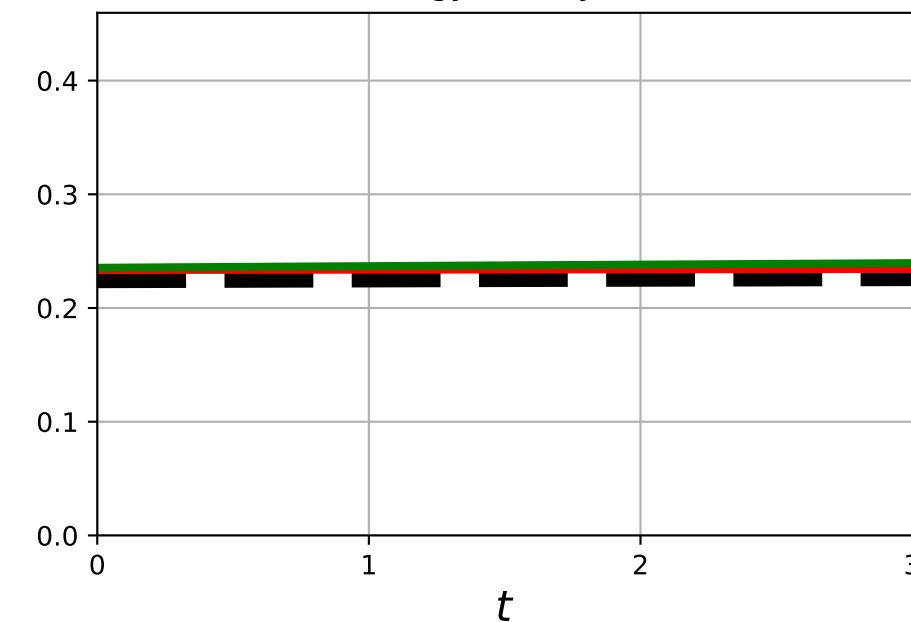
Bulk velocity (v_x)



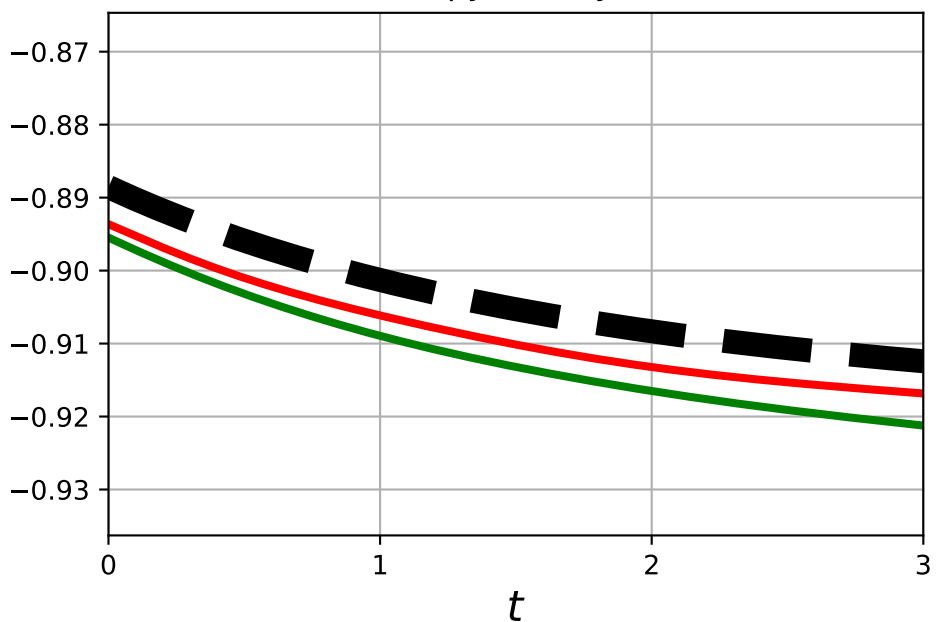
Bulk velocity (v_y)



Energy density (E)



Entropy density (S)



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