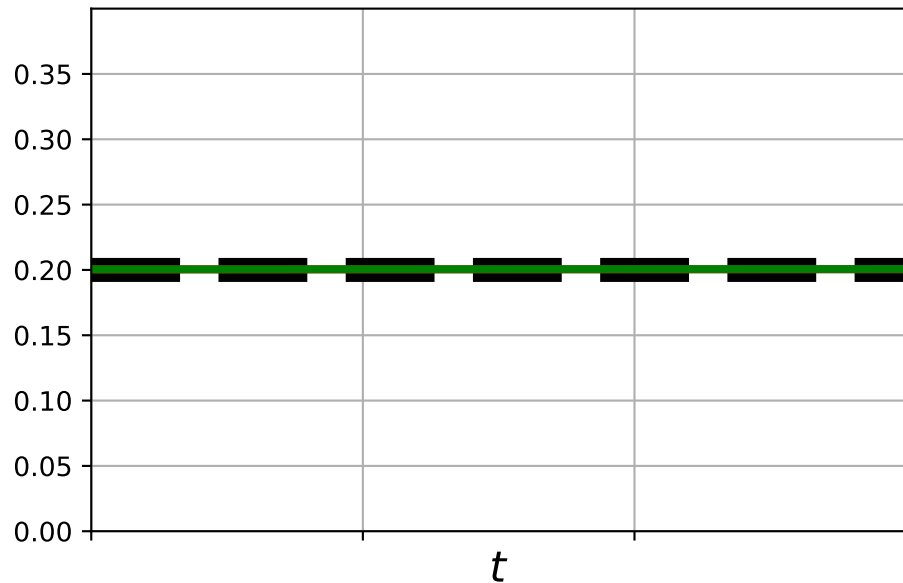


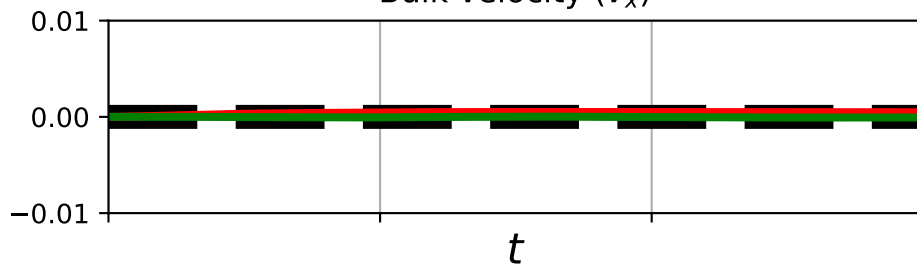
Sum of two Maxwellian distributions ($\Lambda = 3.00$, $\gamma = -2.00$)

Trained for 5000 epochs

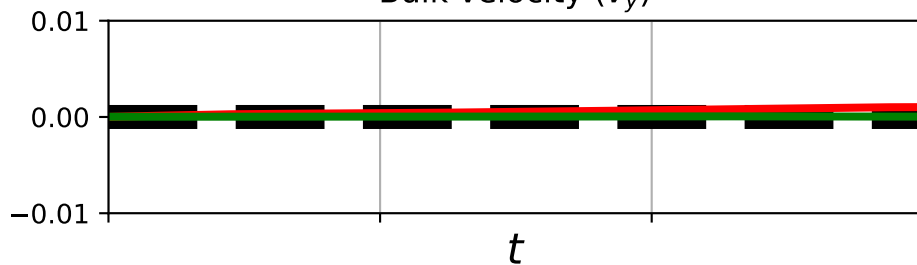
Mass density (ρ)



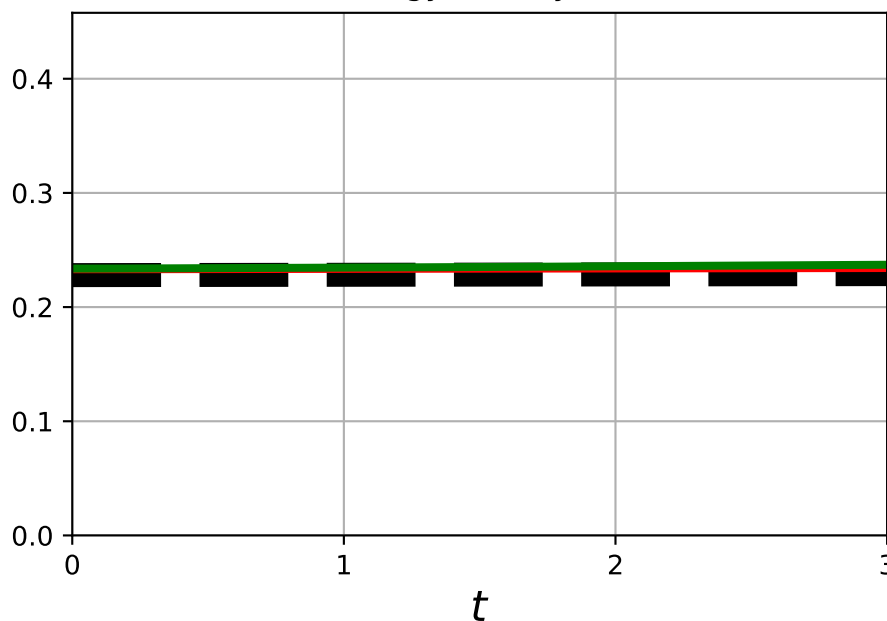
Bulk velocity (v_x)



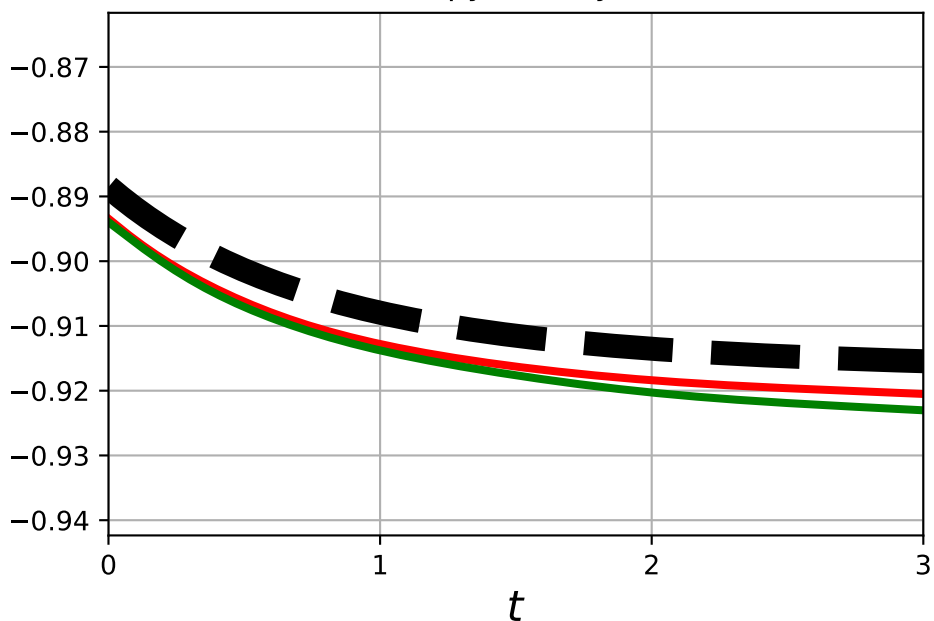
Bulk velocity (v_y)



Energy density (E)



Entropy density (S)



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