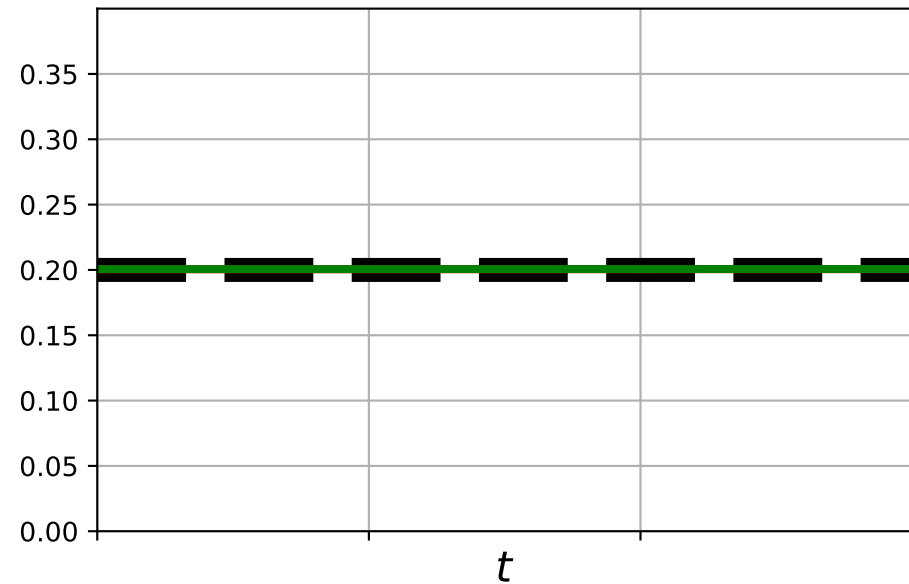


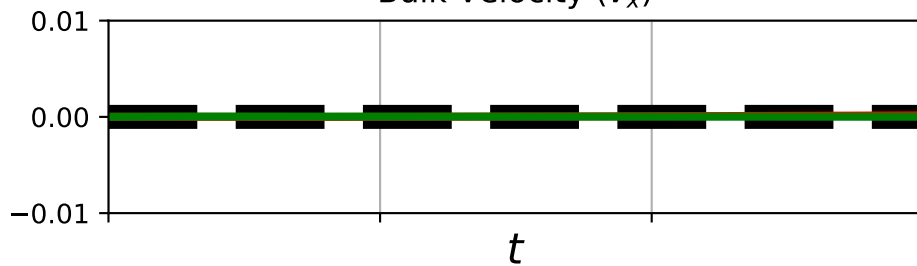
Sum of two Maxwellian distributions ($C = 0.06$, $\gamma = 1.00$)

Trained for 2000 epochs

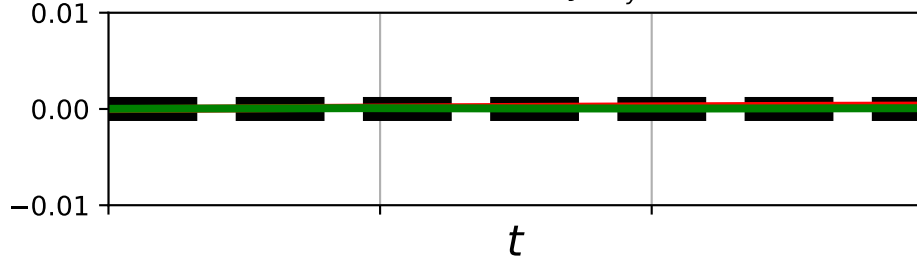
Mass Density (ρ)



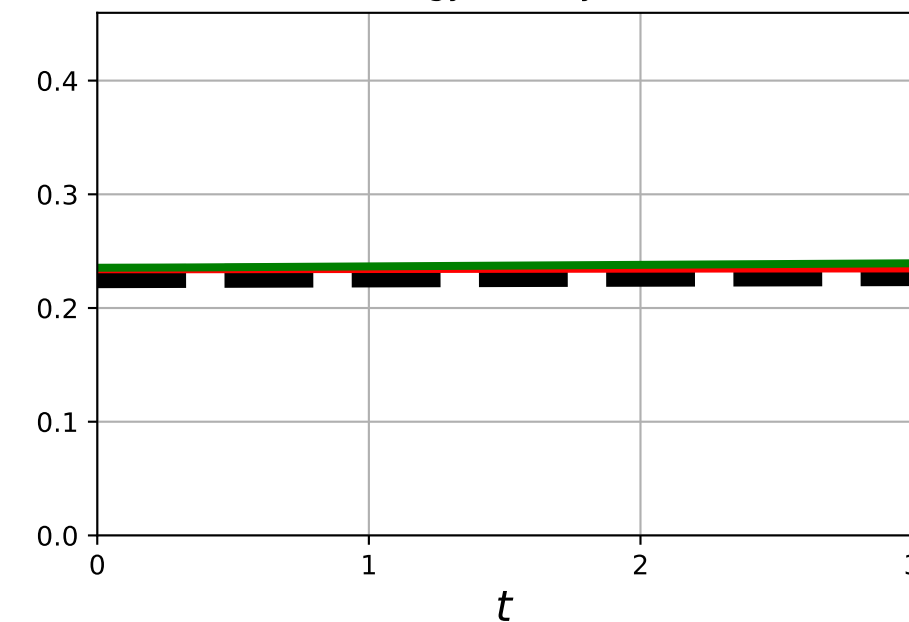
Bulk Velocity (v_x)



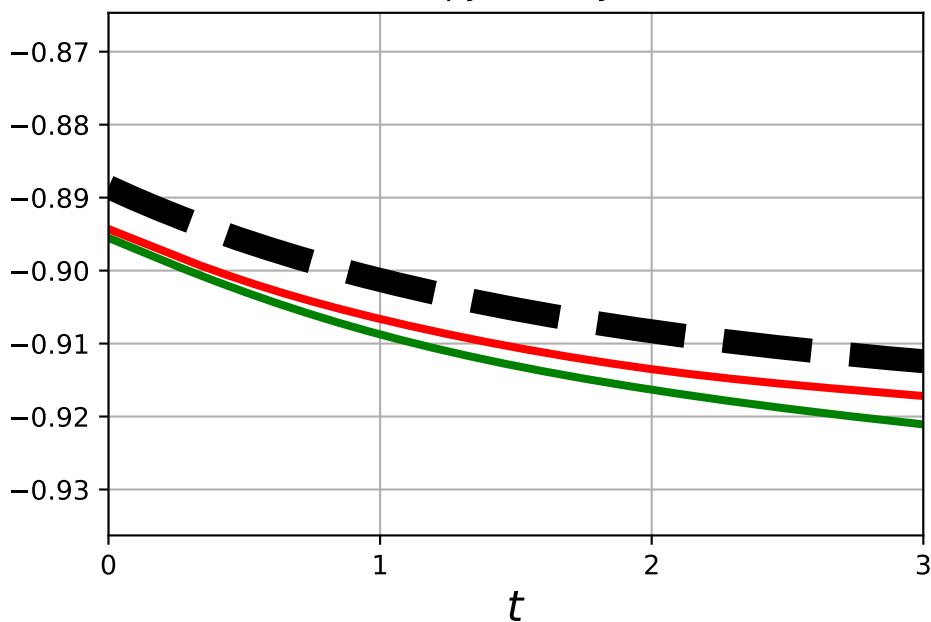
Bulk Velocity (v_y)



Energy Density (E)



Entropy Density (S)



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