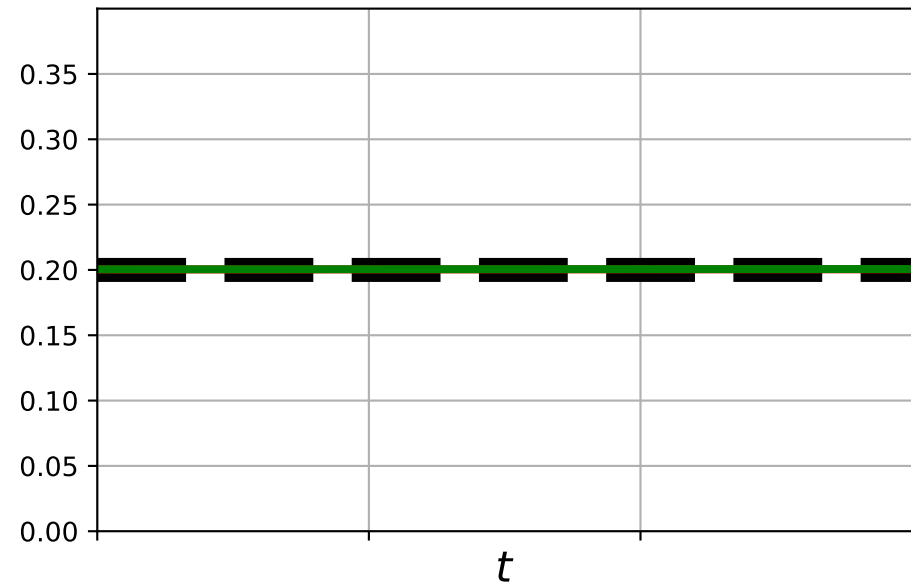


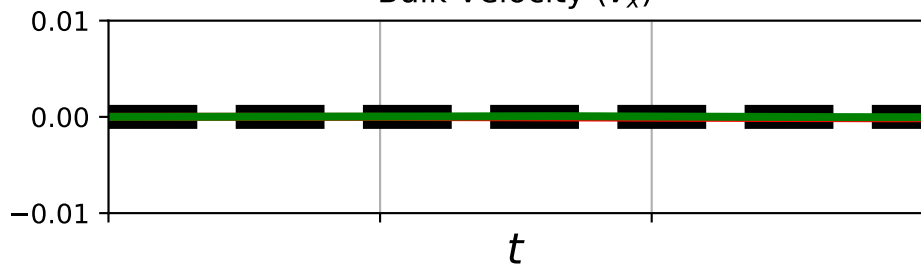
# Sum of two Maxwellian distributions ( $C = 0.31$ , $\gamma = 0.00$ )

## Trained for 4000 epochs

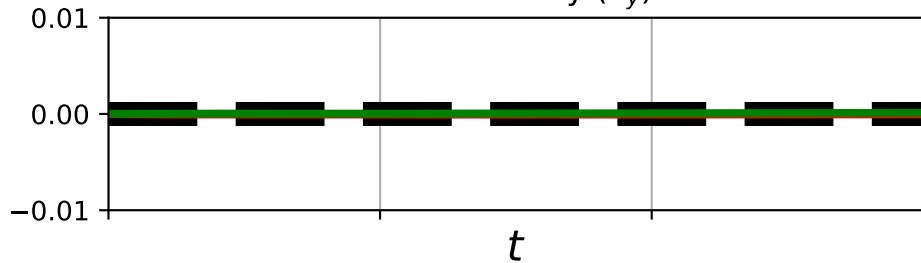
Mass Density ( $\rho$ )



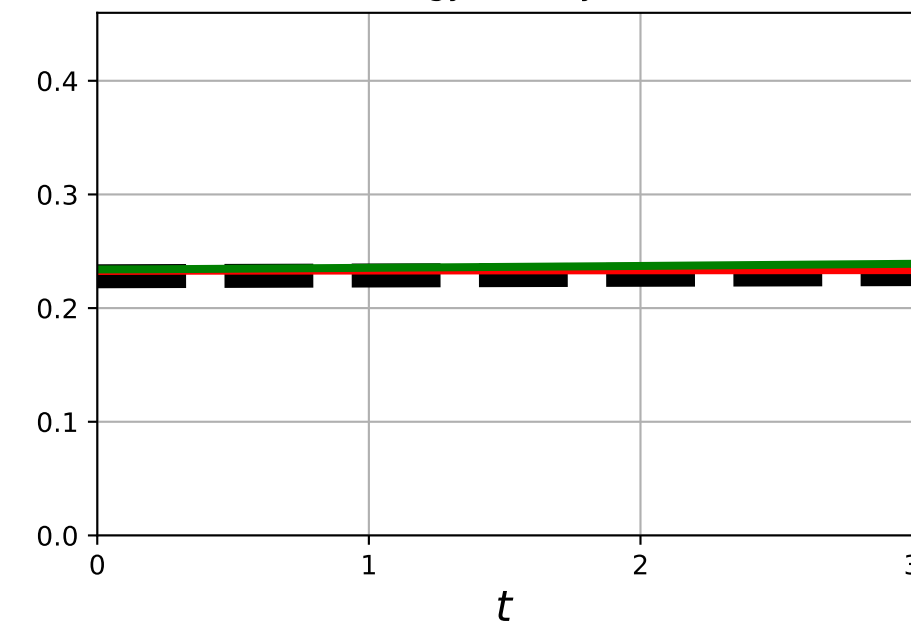
Bulk Velocity ( $v_x$ )



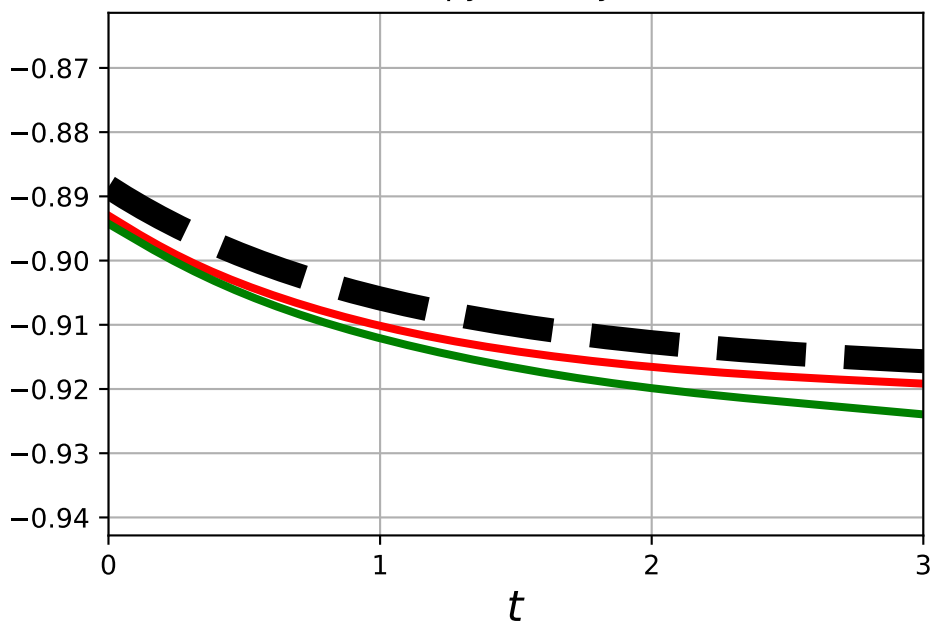
Bulk Velocity ( $v_y$ )



Energy Density ( $E$ )



Entropy Density ( $S$ )



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