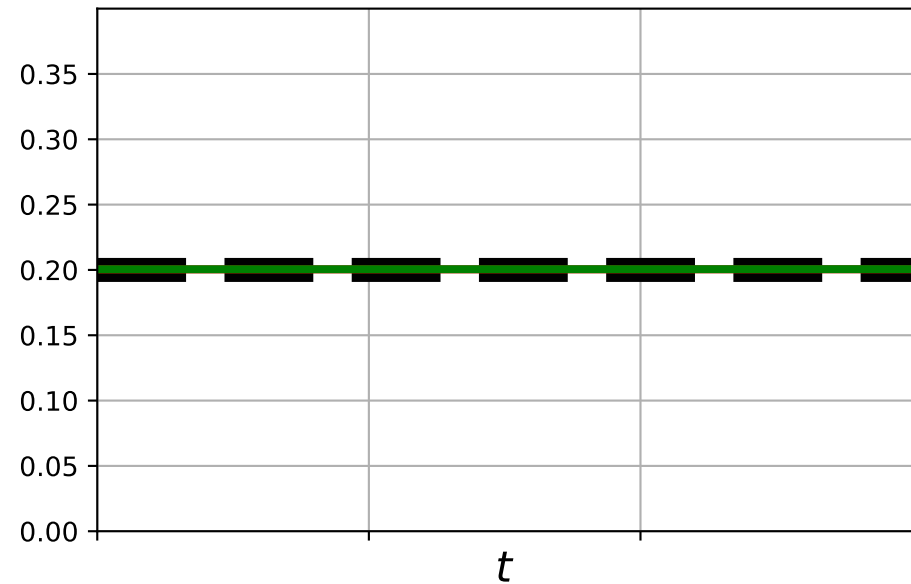


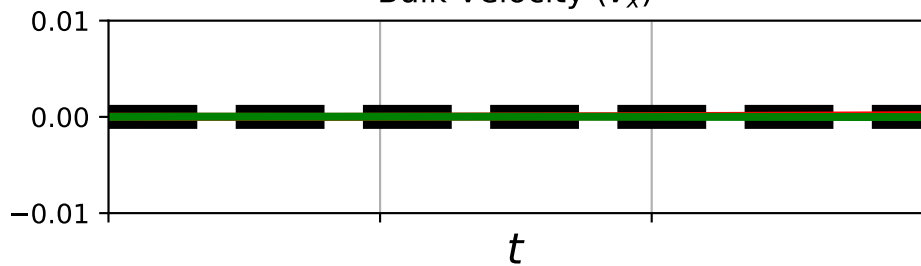
# Sum of two Maxwellian distributions ( $C = 0.06$ , $\gamma = 1.00$ )

## Trained for 3000 epochs

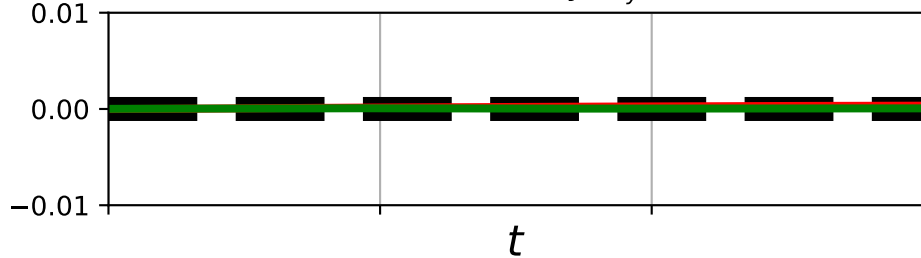
Mass Density ( $\rho$ )



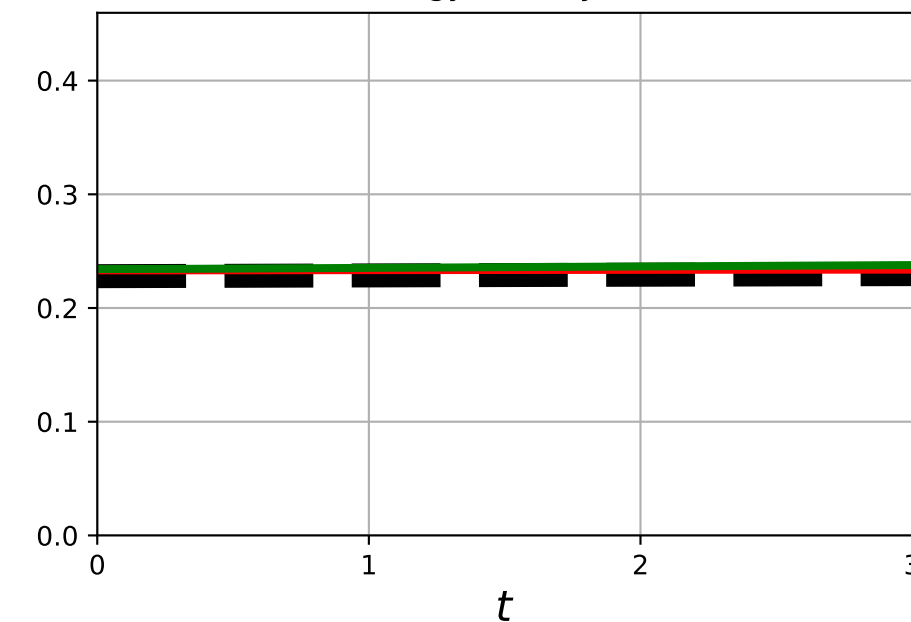
Bulk Velocity ( $v_x$ )



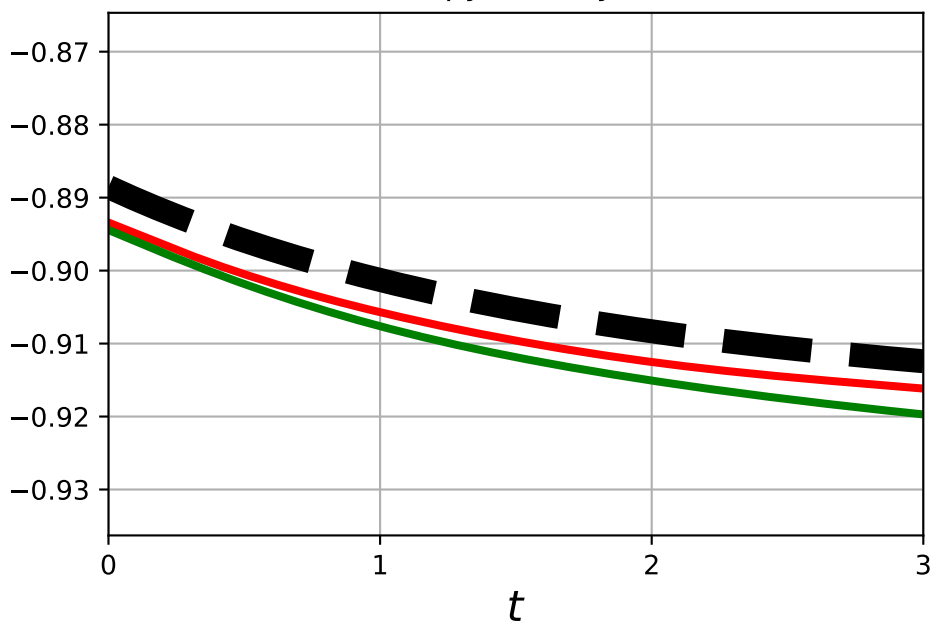
Bulk Velocity ( $v_y$ )



Energy Density ( $E$ )



Entropy Density ( $S$ )



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