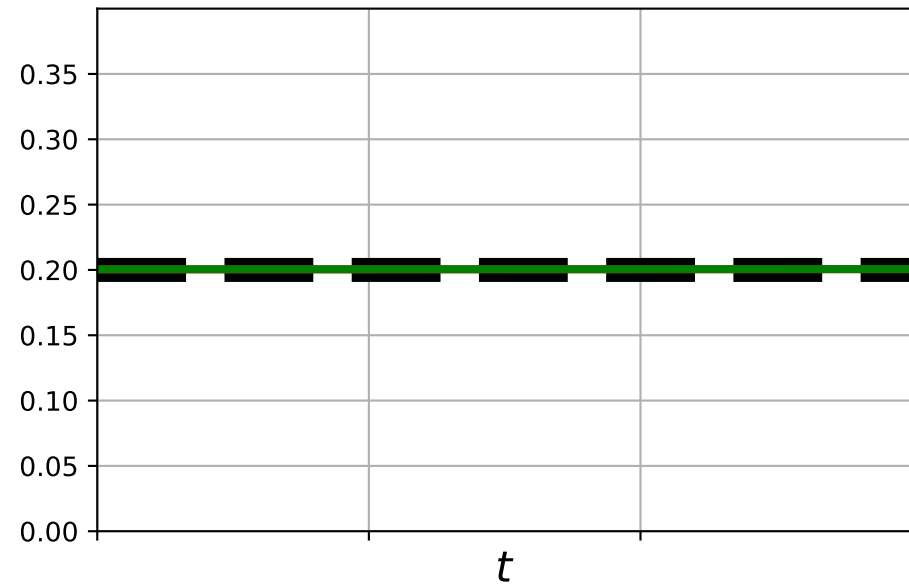


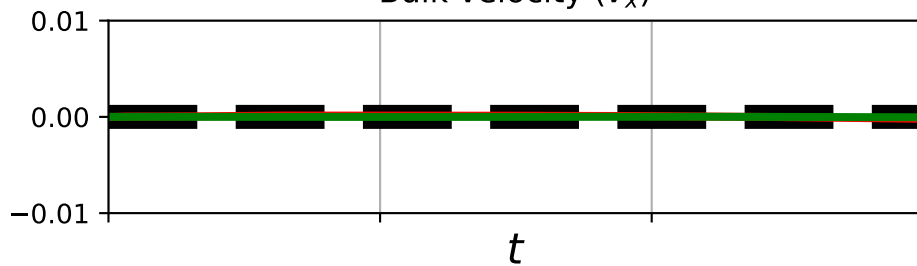
# Sum of two Maxwellian distributions ( $\Lambda = 5.00$ , $\gamma = -3.00$ )

## Trained for 3000 epochs

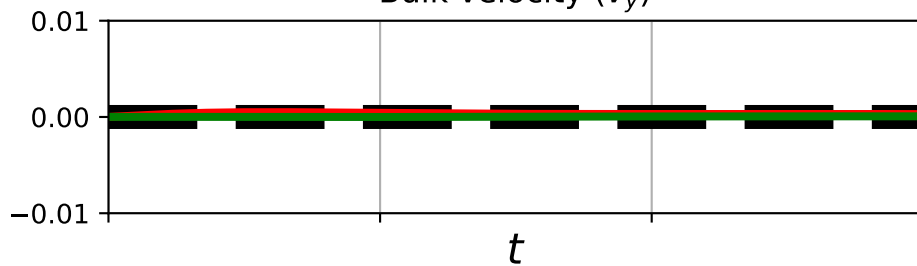
Mass density ( $\rho$ )



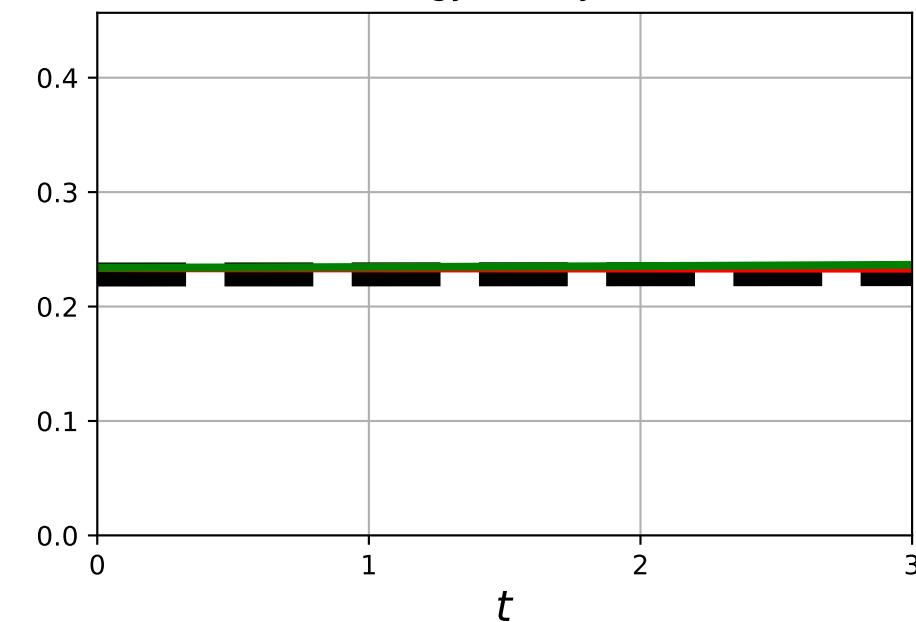
Bulk velocity ( $v_x$ )



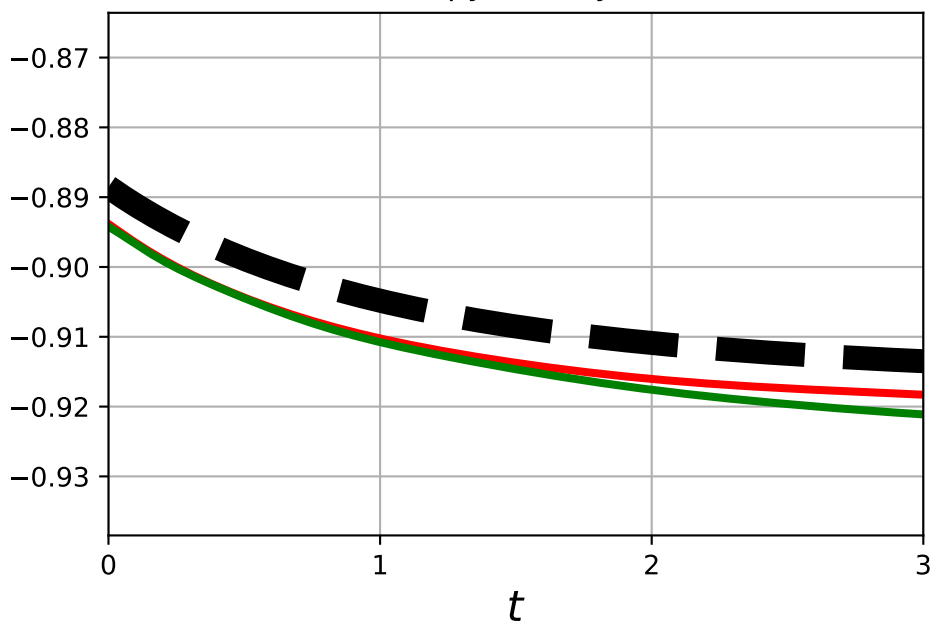
Bulk velocity ( $v_y$ )



Energy density ( $E$ )



Entropy density ( $S$ )



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