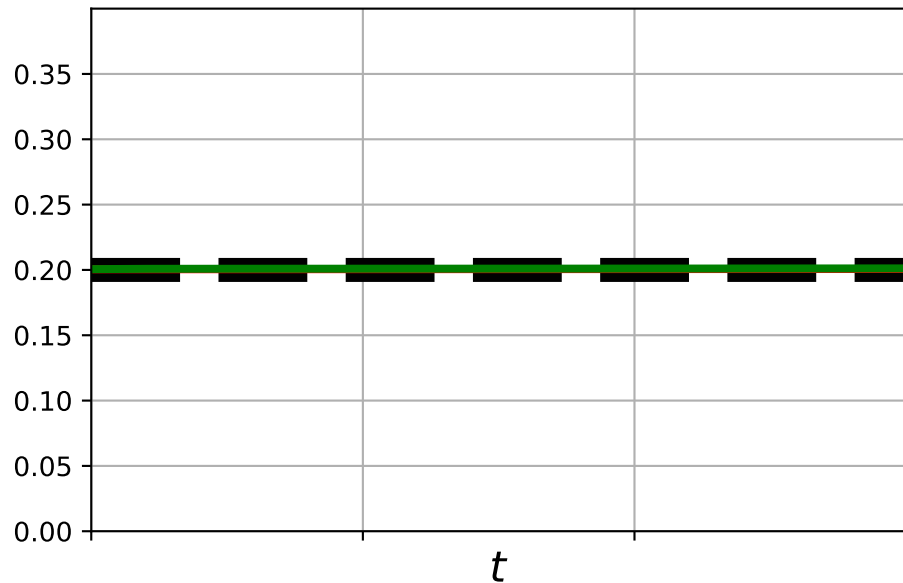


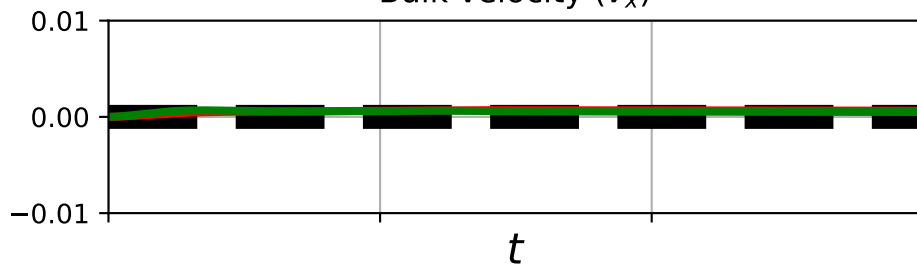
# Sum of two Maxwellian distributions ( $\Lambda = 3.00$ , $\gamma = -2.00$ )

## Trained for 2000 epochs

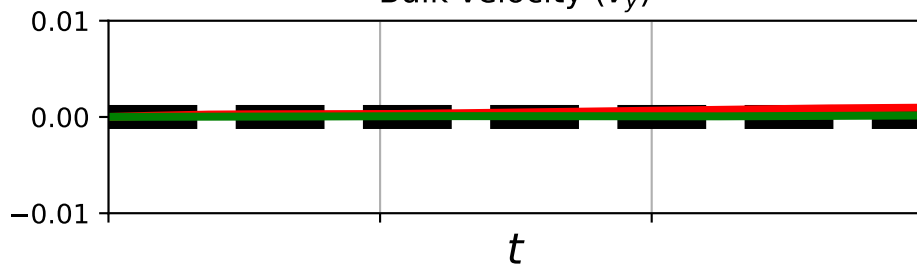
Mass density ( $\rho$ )



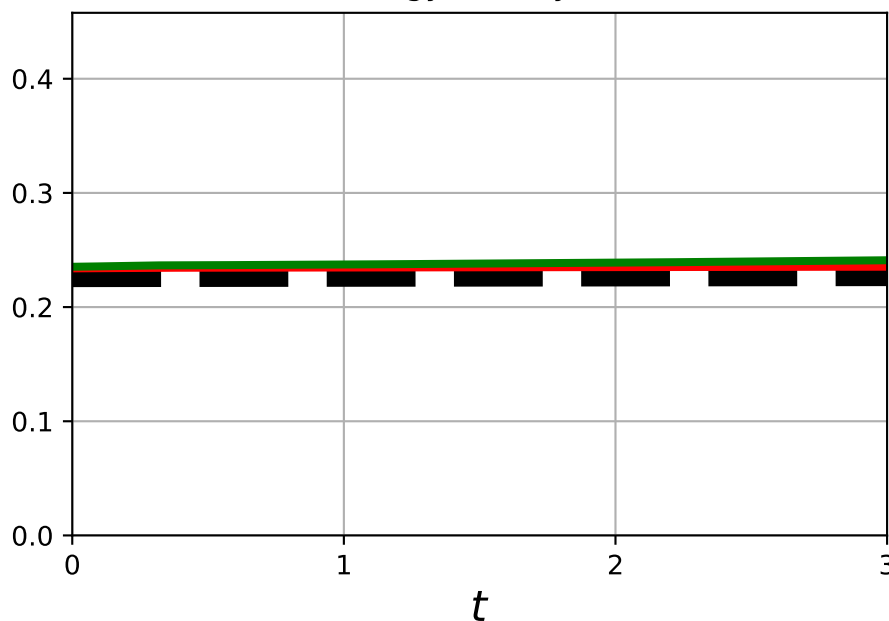
Bulk velocity ( $v_x$ )



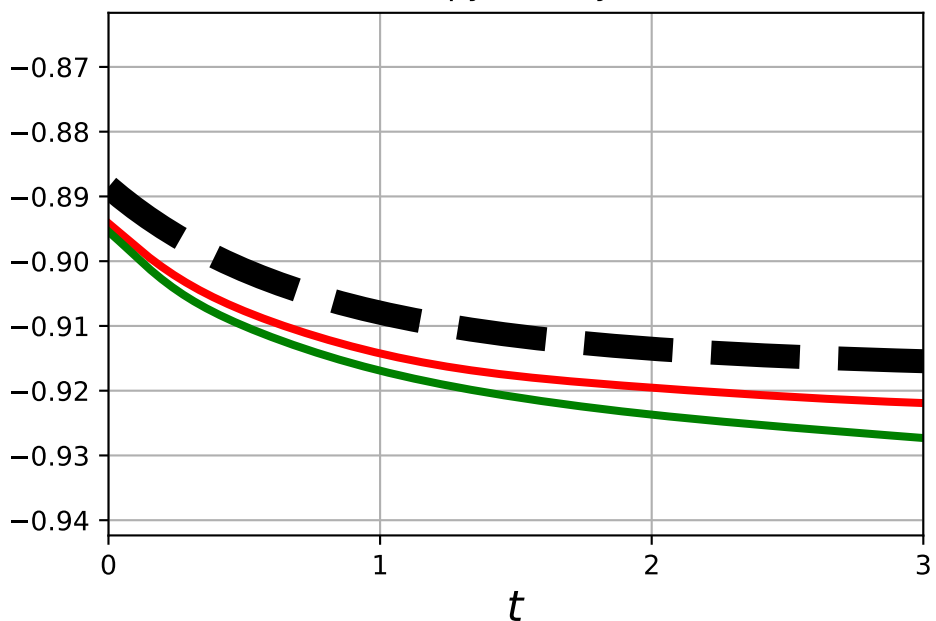
Bulk velocity ( $v_y$ )



Energy density ( $E$ )



Entropy density ( $S$ )



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