

Correct PDE: 0.003183 u_{xx} - 1.0 uu_x (viscosity = 0.01/ π)	
Model	Discovered equation and parameters
128x64 problem size	
PINN	0.0033735 u_{xx} - 0.99912 uu_x
STLSQ	0.06420 u + 0.00505 u_{xx} - 1.06304 uu_x + + 0.00469 uuu_{xx} - 0.00001 uu_{xxx}
FROLS	-0.418 u
SR3	0.064 u + 0.005 u_{xx} - 1.063 uu_x + 0.005 uuu_{xx}
SSR	0.064 u + 0.005 u_{xx} - 1.063 uu_x + 0.005 uuu_{xx}
256x128 problem size	
PINN	0.0031779 u_{xx} - 0.99942 uu_x
STLSQ	0.00395 u_{xx} - 1.00869 uu_x + 0.00126 uuu_{xx}
FROLS	0.015 u + 0.004 u_{xx} - 1.003 uu_x
SR3	0.004 u_{xx} - 1.009 uu_x + 0.001 uuu_{xx}
SSR	0.011 u + 0.004 u_{xx} - 1.011 uu_x + 0.001 uuu_{xx}
512x256 problem size	
PINN	0.0031403 u_{xx} - 0.99850 uu_x
STLSQ	0.00339 u_{xx} - 1.00534 uu_x + 0.00041 uuu_{xx}
FROLS	0.006 u + 0.004 u_{xx} - 1.006 uu_x
SR3	0.003 u_{xx} - 1.005 uu_x
SSR	0.006 u + 0.003 u_{xx} - 1.007 uu_x