

# Identified PDEs

	None	Moving Avg	Cubic Spline	Savitzky Golay	Kernel Filter
1 term	NA	NA	NA	NA	NA
2 terms	$-11.36645uu_x + 16.82523u^2u_x$	$0.01045uu_{xxx} + -0.01774u^2u_{xxx}$	$-8.22135uu_x + 10.76863u^2u_x$	NA	$-109.92191uu_x + -91.44342u^2u_{xxx}$
3 terms	NA	$-4.76422uu_x + 0.00816uu_{xxx} + -0.01595u^2u_{xxx}$	$-0.00272u_{xxx} + -12.22837uu_x + 15.31394u^2u_x$	$0.23376u_{xx} + -1.17997uu_{xx} + 1.44416u^2u_{xx}$	$-98.48596uu_x + -135.56134u^2u_{xxx} + -56.87170u^2u_{xxx}$
4 terms	NA	$-4.49193uu_x + 0.00667uu_{xxx} + -0.01749u^2u_{xxx} + -0.00012uu_{xxx}$	$-0.00395u_{xxx} + -12.24265uu_x + 15.28004u^2u_x + 0.00364uu_{xxx}$	NA	NA
5 terms	NA	$0.00004u_{xxxx} + -4.91661uu_x + -0.00372u^2u_{xxx} + -0.00059uu_{xxx} + 0.00074u^2u_{xxx}$	$-0.00525u_{xxx} + -11.84395uu_x + 15.04165u^2u_x + 0.01230uu_{xxx} + -0.00976u^2u_{xxx}$	NA	$-128.37631uu_x + 69.36572uu_{xx} + -237.65779u^2u_{xx} + -280.65436u^2u_{xxx} + -113.67838u^2u_{xxx}$
6 terms	NA	$0.00004u_{xxxx} + -6.04994uu_x + 2.49039u^2u_x + -0.00462u^2u_{xxx} + -0.00053uu_{xxx} + 0.00062u^2u_{xxx}$	NA	NA	$-125.03902uu_x + 57.05769uu_{xx} + -219.28817u^2u_{xx} + -271.60494u^2u_{xxx} + -13.06438uu_{xxx} + -94.15883u^2u_{xxx}$

	None	Moving Avg	Cubic Spline	Savitzky Golay	Kernel Fil- ter
1 term	NA	NA	NA	NA	NA
2 terms	$\alpha uu_x + \beta u^2 u_x$	$\alpha uu_{xxx} + \beta u^2 u_{xxx}$	$\alpha uu_x + \beta u^2 u_x$	NA	$\alpha uu_x + \beta u^2 u_{xxx}$
3 terms	NA	$\alpha uu_x + \beta uu_{xxx} + \gamma u^2 u_{xxx}$	$\alpha u_{xxx} + \beta uu_x + \gamma u^2 u_x$	$\alpha u_{xx} + \beta uu_{xx} + \gamma u^2 u_{xx}$	$\alpha uu_x + \beta u^2 u_{xxx} + \gamma u^2 u_{xxx}$
4 terms	NA	$\alpha uu_x + \beta uu_{xxx} + \gamma u^2 u_{xxx} + \lambda uu_{xxxx}$	$\alpha u_{xxx} + \beta uu_x + \gamma u^2 u_x + \lambda uu_{xxx}$	NA	NA
5 terms	NA	$\alpha u_{xxxx} + \beta uu_x + \gamma u^2 u_{xxx} + \lambda uu_{xxxx} + \mu u^2 u_{xxxx}$	$\alpha u_{xxx} + \beta uu_x + \gamma u^2 u_x + \lambda uu_{xxx} + \mu u^2 u_{xxx}$	NA	$\alpha uu_x + \beta uu_{xx} + \gamma u^2 u_{xx} + \lambda u^2 u_{xxx} + \mu u^2 u_{xxxx}$
6 terms	NA	$\alpha u_{xxxx} + \beta uu_x + \gamma u^2 u_x + \lambda u^2 u_{xxx} + \mu uu_{xxxx} + \rho u^2 u_{xxxx}$	NA	NA	$\alpha uu_x + \beta uu_{xx} + \gamma u^2 u_{xx} + \lambda u^2 u_{xxx} + \mu uu_{xxxx} + \rho u^2 u_{xxxx}$