Main:

$$\frac{\partial^\alpha u}{\partial t^\alpha} + (\beta + \varepsilon\ u^p + \epsilon\ u^{2p})u_x + \rho\ u^{2r}\ u_{xx} + \nu\ u^{3s}\ u_{xxx} + \vartheta\ u^{4k}\ u_{xxxx} = \eta u(\tau - u^m)(u^n - \omega), \quad (0.1)$$

$t > 0,\ 0 < \alpha < 1,\ \beta = \varepsilon = \epsilon = \rho = \nu = \vartheta = \eta = \omega = const,\ p, r, s, k, m, n \geq 0$

eqnarray with &:

$$\begin{aligned} &\tfrac{\partial^\alpha u}{\partial t^\alpha} + (\beta + \varepsilon\ u^p + \epsilon\ u^{2p})u_x + \rho\ u^{2r}\ u_{xx} + \\ &\nu\ u^{3s}\ u_{xxx} + \vartheta\ u^{4k}\ u_{xxxx} = \eta u(\tau - u^m)(u^n - \omega), \end{aligned} \quad (0.2)$$

$t > 0,\ 0 < \alpha < 1,\ \beta = \varepsilon = \epsilon = \rho = \nu = \vartheta = \eta = \omega = const,\ p, r, s, k, m, n \geq 0$

align with &:

$$\begin{aligned} &\frac{\partial^\alpha u}{\partial t^\alpha} + (\beta + \varepsilon\ u^p + \epsilon\ u^{2p})u_x + \rho\ u^{2r}\ u_{xx} + \\ &\quad \nu\ u^{3s}\ u_{xxx} + \vartheta\ u^{4k}\ u_{xxxx} = \eta u(\tau - u^m)(u^n - \omega), \end{aligned} \quad (0.3)$$

$t > 0,\ 0 < \alpha < 1,\ \beta = \varepsilon = \epsilon = \rho = \nu = \vartheta = \eta = \omega = const,\ p, r, s, k, m, n \geq 0$

split:

$$\begin{aligned} &\frac{\partial^\alpha u}{\partial t^\alpha} + (\beta + \varepsilon\ u^p + \epsilon\ u^{2p})u_x + \rho\ u^{2r}\ u_{xx} + \\ &\quad \nu\ u^{3s}\ u_{xxx} + \vartheta\ u^{4k}\ u_{xxxx} = \eta u(\tau - u^m)(u^n - \omega), \end{aligned} \quad (0.4)$$

$t > 0,\ 0 < \alpha < 1,\ \beta = \varepsilon = \epsilon = \rho = \nu = \vartheta = \eta = \omega = const,\ p, r, s, k, m, n \geq 0$