1 Example `FoxH32-21.wls`

File content

Fox H-function

$$
H_{2,3}^{2,1} \left(\cdot \left| \begin{array}{c} \left(1, \frac{1}{\alpha}\right), (\text{Ceil}(\beta), \beta) \\[2ex] \left(\frac{1}{2}, \frac{\alpha}{2}\right), (1, 1), \left(1, \frac{\alpha}{2}\right) \end{array} \right. \right)
$$

$$
H_{2,3}^{2,1} \left(\cdot \left| \begin{array}{c|c} \left(1, \frac{1}{\alpha}\right) & (\text{Ceil}(\beta), \beta) \\ \hline \left(\frac{1}{2}, \frac{\alpha}{2}\right), (1, 1) & \left(1, \frac{\alpha}{2}\right) \end{array} \right. \right)
$$

Summary

$$
a^* = \frac{1}{\alpha} - \beta + 1
$$

$$
\Delta = \alpha - \frac{1}{\alpha} - \beta + 1
$$

$$
\delta = 2^{-\alpha} \left(\frac{1}{\alpha}\right)^{-1/\alpha} \left(2^{\alpha/2} \alpha^{\alpha/2} + \alpha^{\alpha}\right) \beta^{-\beta}
$$

$$
\mu = 1 - \text{Ceil}(\beta)
$$

$$
a_1^* = \frac{1}{2}(\alpha - 2\beta + 2)
$$

$$
a_2^* = \frac{1}{\alpha} - \frac{\alpha}{2}
$$

$$
\xi = \frac{3}{2} - \text{Ceil}(\beta)
$$

$$
c^* = \frac{1}{2}
$$

Poles   1. First ten poles from upper front list

$$a_{i,k} = \begin{pmatrix} 0 \\ \alpha \\ 2\alpha \\ 3\alpha \\ 4\alpha \\ 5\alpha \\ 6\alpha \\ 7\alpha \\ 8\alpha \\ 9\alpha \\ 10\alpha \end{pmatrix}$$

2. **First ten poles from lower front list**

$$b_{j,\ell} = \begin{pmatrix} -\frac{1}{\alpha} & -1 \\ -\frac{3}{\alpha} & -2 \\ -\frac{5}{\alpha} & -3 \\ -\frac{7}{\alpha} & -4 \\ -\frac{9}{\alpha} & -5 \\ -\frac{11}{\alpha} & -6 \\ -\frac{13}{\alpha} & -7 \\ -\frac{15}{\alpha} & -8 \\ -\frac{17}{\alpha} & -9 \\ -\frac{19}{\alpha} & -10 \\ -\frac{21}{\alpha} & -11 \end{pmatrix}$$