1 Example `FoxH32-21.wls`

File content

Fox H-function

$$H_{2,3}^{2,1}\left(\cdot\;\middle|\;\begin{array}{l}\left(1,\frac{1}{\alpha}\right),(\lceil\beta\rceil,\beta)\\[1em]\left(\frac{1}{2},\frac{\alpha}{2}\right),(1,1),\left(1,\frac{\alpha}{2}\right)\end{array}\right)$$

$$H_{2,3}^{2,1}\left(\cdot\;\middle|\;\begin{array}{c|c}\left(1,\frac{1}{\alpha}\right)&(\lceil\beta\rceil,\beta)\\\hline\left(\frac{1}{2},\frac{\alpha}{2}\right),(1,1)&\left(1,\frac{\alpha}{2}\right)\end{array}\right)$$

Summary

$$a^* = \frac{1}{\alpha} - \beta + 1$$
$$\Delta = \alpha - \frac{1}{\alpha} - \beta + 1$$
$$\delta = 2^{-\alpha}\left(\frac{1}{\alpha}\right)^{-1/\alpha}\left(2^{\alpha/2}\alpha^{\alpha/2} + \alpha^{\alpha}\right)\beta^{-\beta}$$
$$\mu = 1 - \lceil\beta\rceil$$
$$a_1^* = \frac{1}{2}(\alpha - 2\beta + 2)$$
$$a_2^* = \frac{1}{\alpha} - \frac{\alpha}{2}$$
$$\xi = \frac{3}{2} - \lceil\beta\rceil$$
$$c^* = \frac{1}{2}$$

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

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