1 Example FoxH32-21-Y.wls

File content

Fox H-function

$$H_{2,3}^{2,1}\left(\cdot \left| \begin{array}{c} \left(1,1\right),\left(\beta+\gamma,\beta\right) \\ \left(\frac{d}{2},\frac{\alpha}{2}\right),\left(1,1\right),\left(1,\frac{\alpha}{2}\right) \end{array} \right)$$

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

Summary

$$\begin{split} a^* &= 2 - \beta \\ \Delta &= \alpha - \beta \\ \delta &= 2^{-\alpha} \left(2^{\alpha/2} \alpha^{\alpha/2} + \alpha^{\alpha} \right) \beta^{-\beta} \\ \mu &= \frac{1}{2} (-2\beta - 2\gamma + d + 1) \\ a_1^* &= \frac{1}{2} (\alpha - 2\beta + 2) \\ a_2^* &= 1 - \frac{\alpha}{2} \\ \xi &= \frac{1}{2} (d - 2(\beta + \gamma - 1)) \\ c^* &= \frac{1}{2} \end{split}$$

Poles 1. First eight poles from upper front list

2. First eight poles from lower front list

$$b_{j,\ell} = \begin{pmatrix} -\frac{d}{\alpha} & -\frac{d+2}{\alpha} & -\frac{d+4}{\alpha} & -\frac{d+6}{\alpha} & -\frac{d+8}{\alpha} & -\frac{d+10}{\alpha} & -\frac{d+12}{\alpha} & -\frac{d+14}{\alpha} \\ -1 & -2 & -3 & -4 & -5 & -6 & -7 & -8 \end{pmatrix}$$