1 Example FoxH32-21-Z-Star.wls

File content

Fox H-function

$$H_{2,3}^{2,1}\left(\cdot\,\middle|\,\begin{matrix}(1,1),(1,\beta)\\ \left(\frac{d}{2},\frac{\alpha}{2}\right),(1,1),\left(1,\frac{\alpha}{2}\right)\end{matrix}\right)$$

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

Summary

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

Poles 1. First ten poles from upper front list

$$a_{i,k} = \begin{pmatrix}0\\1\\2\\3\\4\\5\\6\\7\\8\\9\\10\end{pmatrix}$$

2. First ten poles from lower front list

$$b_{j,\ell} = \begin{pmatrix}-\frac{d}{\alpha} & -1\\ -\frac{d+2}{\alpha} & -2\\ -\frac{d+4}{\alpha} & -3\\ -\frac{d+6}{\alpha} & -4\\ -\frac{d+8}{\alpha} & -5\\ -\frac{d+10}{\alpha} & -6\\ -\frac{d+12}{\alpha} & -7\\ -\frac{d+14}{\alpha} & -8\\ -\frac{d+16}{\alpha} & -9\\ -\frac{d+18}{\alpha} & -10\\ -\frac{d+20}{\alpha} & -11\end{pmatrix}$$