1 Example `FoxH-generalized_Bessel_Maitland_2_9_24.wls`

File content

Fox H-function

$$H_{1,3}^{1,1}\left(\cdot\,\middle|\,\begin{array}{l}\left(\lambda+\frac{\nu}{2},1\right)\\ \\ \left(\lambda+\frac{\nu}{2},1\right),\left(\frac{\nu}{2},1\right),\left(\mu\left(\lambda+\frac{\nu}{2}\right)-\lambda-\nu,\mu\right)\end{array}\right)$$

$$H_{1,3}^{1,1}\left(\cdot\,\middle|\,\begin{array}{l|l}\left(\lambda+\frac{\nu}{2},1\right) & \\ \hline \left(\lambda+\frac{\nu}{2},1\right) & \left(\frac{\nu}{2},1\right),\left(\mu\left(\lambda+\frac{\nu}{2}\right)-\lambda-\nu,\mu\right)\end{array}\right)$$

Summary

$$\begin{aligned}a^* &= 1-\mu\\ \Delta &= \mu+1\\ \delta &= \text{ComplexInfinity}\\ \mu &= \mu\left(\lambda+\frac{\nu}{2}\right)-\lambda-\frac{\nu}{2}-1\\ a_1^* &= 1\\ a_2^* &= -\mu\\ \xi &= -\mu\left(\lambda+\frac{\nu}{2}\right)+3\lambda+\frac{3\nu}{2}\\ c^* &= 0\end{aligned}$$

Poles 1. First eight poles from upper front list

$$a_{i,k} = \begin{pmatrix} -\lambda - \frac{\nu}{2} + 1 \\ -\lambda - \frac{\nu}{2} + 2 \\ -\lambda - \frac{\nu}{2} + 3 \\ -\lambda - \frac{\nu}{2} + 4 \\ -\lambda - \frac{\nu}{2} + 5 \\ -\lambda - \frac{\nu}{2} + 6 \\ -\lambda - \frac{\nu}{2} + 7 \\ -\lambda - \frac{\nu}{2} + 8 \end{pmatrix}^T$$

2. First eight poles from lower front list

$$b_{j,\ell} = \begin{pmatrix} -\lambda - \frac{\nu}{2} \\ -\lambda - \frac{\nu}{2} - 1 \\ -\lambda - \frac{\nu}{2} - 2 \\ -\lambda - \frac{\nu}{2} - 3 \\ -\lambda - \frac{\nu}{2} - 4 \\ -\lambda - \frac{\nu}{2} - 5 \\ -\lambda - \frac{\nu}{2} - 6 \\ -\lambda - \frac{\nu}{2} - 7 \end{pmatrix}^T$$