1 Example `FoxH-Bessel-Y_2_9_20.wls`

File content

Fox H-function

$$H_{1,3}^{2,0}\left(\cdot\,\middle|\,\begin{matrix}\left(\frac{1}{2}(a-\eta-1),1\right)\\ \left(\frac{a-\eta}{2},1\right),\left(\frac{a+\eta}{2},1\right),\left(\frac{1}{2}(a-\eta-1),1\right)\end{matrix}\right)$$

$$H_{1,3}^{2,0}\left(\cdot\,\middle|\,\begin{matrix}\quad & \left(\frac{1}{2}(a-\eta-1),1\right)\\ \hline \left(\frac{a-\eta}{2},1\right),\left(\frac{a+\eta}{2},1\right) & \left(\frac{1}{2}(a-\eta-1),1\right)\end{matrix}\right)$$

Summary

$$\begin{aligned} a^* &= 0\\ \Delta &= 2\\ \delta &= \text{ComplexInfinity}\\ \mu &= a-1\\ a_1^* &= 1\\ a_2^* &= -1\\ \xi &= \eta+1\\ c^* &= 0 \end{aligned}$$

Poles 1. First eight poles from upper front list

$$a_{i,k} = \{\}^T$$

2. First eight poles from lower front list

$$b_{j,\ell} = \begin{pmatrix} \frac{\eta-a}{2} & \frac{1}{2}(-a-\eta) \\ \frac{1}{2}(-a+\eta-2) & \frac{1}{2}(-a-\eta-2) \\ \frac{1}{2}(-a+\eta-4) & \frac{1}{2}(-a-\eta-4) \\ \frac{1}{2}(-a+\eta-6) & \frac{1}{2}(-a-\eta-6) \\ \frac{1}{2}(-a+\eta-8) & \frac{1}{2}(-a-\eta-8) \\ \frac{1}{2}(-a+\eta-10) & -\frac{a}{2}-\frac{\eta}{2}-5 \\ \frac{1}{2}(-a+\eta-12) & -\frac{a}{2}-\frac{\eta}{2}-6 \\ \frac{1}{2}(-a+\eta-14) & -\frac{a}{2}-\frac{\eta}{2}-7 \end{pmatrix}^T$$