Example test.wls

File content

 $H_{4,5}^{4,2}\left(\cdot \left| \begin{array}{c|c} \left(1,\frac{1}{\alpha}\right), (1,1) & (\text{Ceil}(\beta),\beta), (1,1) \\ \hline \left(\frac{1}{2},\frac{\alpha}{2}\right), (1,1), (3,3), (2,2) & \left(1,\frac{\alpha}{2}\right) \end{array} \right)$

 $\Delta = \alpha - \frac{1}{\alpha} - \beta + 4$ $\delta = \frac{2^{-\alpha} \left(2^{\frac{\alpha}{2} + 5} \alpha^{\alpha/2} + \alpha^{\alpha}\right)}{\left(\left(\frac{1}{\alpha}\right)^{\frac{1}{\alpha}} + 1\right) (\beta^{\beta} + 1)}$

 $a^* = \frac{1}{\alpha} - \beta + 6$

 $a_1^* = \frac{\alpha}{2} - \beta + 5$

Summary

$$a_2^* = -\frac{\alpha}{2} + \frac{1}{\alpha} + 1$$
$$\xi = \frac{13}{2} - \text{Ceil}(\beta)$$
$$c^* = \frac{3}{2}$$

Poles 1. First ten poles from upper front list

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

2. First ten poles from lower front list

$$\begin{pmatrix} -\frac{1}{\alpha} & -1 & -1 & -1 \\ -\frac{3}{\alpha} & -2 & -\frac{4}{3} & -\frac{3}{2} \\ -\frac{5}{\alpha} & -3 & -\frac{5}{3} & -2 \\ -\frac{7}{\alpha} & -4 & -2 & -\frac{5}{2} \end{pmatrix}$$

-10

-11