

## 1 Example **FoxH32-21.wls**

### File content

#### Fox H-function

$$H_{2,3}^{2,1} \left( . \left| \begin{array}{c} (1, \frac{1}{\alpha}), (\lceil \beta \rceil, \beta) \\ (\frac{1}{2}, \frac{\alpha}{2}), (1, 1), (1, \frac{\alpha}{2}) \end{array} \right. \right)$$

$$H_{2,3}^{2,1} \left( . \left| \begin{array}{c|c} (1, \frac{1}{\alpha}) & (\lceil \beta \rceil, \beta) \\ (\frac{1}{2}, \frac{\alpha}{2}), (1, 1) & (1, \frac{\alpha}{2}) \end{array} \right. \right)$$

#### Summary

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

$$\Delta = \alpha - \frac{1}{\alpha} - \beta + 1$$

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

$$\mu = 1 - \lceil \beta \rceil$$

$$a_1^* = \frac{1}{2}(\alpha - 2\beta + 2)$$

$$a_2^* = \frac{1}{\alpha} - \frac{\alpha}{2}$$

$$\xi = \frac{3}{2} - \lceil \beta \rceil$$

$$c^* = \frac{1}{2}$$

#### Poles 1. First eight poles from upper front list

$$a_{i,k} = \left( \begin{array}{cccccccc} 0 & \alpha & 2\alpha & 3\alpha & 4\alpha & 5\alpha & 6\alpha & 7\alpha \end{array} \right)$$

#### 2. First eight poles from lower front list

$$b_{j,\ell} = \begin{pmatrix} -\frac{1}{\alpha} & -\frac{3}{\alpha} & -\frac{5}{\alpha} & -\frac{7}{\alpha} & -\frac{9}{\alpha} & -\frac{11}{\alpha} & -\frac{13}{\alpha} & -\frac{15}{\alpha} \\ -1 & -2 & -3 & -4 & -5 & -6 & -7 & -8 \end{pmatrix}$$