1 Example FoxH32-21.wls

File content

```
{
    (* Upper List *) {
        (* Upper Front List *) {{1, α^(-1)}},
        (* Upper Rear List *) {{Ceiling[β], β}}
},
    (* Lower List *) {
        (* Lower Front List *) {{1/2, α/2}, {1, 1}},
        (* Lower Rear List *) {{1, α/2}}
}
}
```

Fox H-function

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

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

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

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

2. First eight poles from lower front list

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