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

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

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

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 ten poles from upper front list

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

2. First ten poles from lower front list

$$
b_{j,\ell} = \begin{pmatrix}
-\frac{1}{\alpha} & -1 \\
-\frac{3}{\alpha} & -2 \\
-\frac{5}{\alpha} & -3 \\
-\frac{7}{\alpha} & -4 \\
-\frac{9}{\alpha} & -5 \\
-\frac{11}{\alpha} & -6 \\
-\frac{13}{\alpha} & -7 \\
-\frac{15}{\alpha} & -8 \\
-\frac{17}{\alpha} & -9 \\
-\frac{19}{\alpha} & -10 \\
-\frac{21}{\alpha} & -11
\end{pmatrix}
$$