$1 \quad \mathrm{Example} \; \mathsf{FoxH\text{-}Lommel_2_9_22.wls}$

File content

```
(* (2.9.22) of Kilbas and Saigo 04 *)
{
    (* Upper List *) {
        (* Upper Front List *) {{(1+\mu)/2,1}},
        (* Upper Rear List *) {}
},
    (* Lower List *) {
        (* Lower Front List *) {{(1+\mu)/2,1},{\eta/2,1},{-\eta/2,1}},
        (* Lower Rear List *) {}
}
```

Fox H-function

$$H_{1,3}^{3,1}\left(\cdot \left| \begin{array}{c} \left(\frac{\mu+1}{2},1\right) \\ \left(\frac{\mu+1}{2},1\right),\left(\frac{\eta}{2},1\right),\left(-\frac{\eta}{2},1\right) \end{array} \right)$$

$$H_{1,3}^{3,1}\left(\cdot\left|\begin{array}{c}\left(\frac{\mu+1}{2},1\right)\\\hline\left(\frac{\mu+1}{2},1\right),\left(\frac{\eta}{2},1\right),\left(-\frac{\eta}{2},1\right)\end{array}\right|$$

Summary

$$a^* = 4$$

$$\Delta = 2$$

$$\delta = \text{Indeterminate}$$

$$\mu = -1$$

$$a_1^* = 3$$

$$a_2^* = 1$$

$$\xi = \mu + 1$$

$$c^* = 2$$

Poles 1. First ten poles from upper front list

2. First ten poles from lower front list

$$b_{j,\ell} = \begin{pmatrix} \frac{1}{2}(-\mu - 1) & \frac{1}{2}(-\mu - 3) & \frac{1}{2}(-\mu - 5) & \frac{1}{2}(-\mu - 7) & \frac{1}{2}(-\mu - 9) & \frac{1}{2}(-\mu - 11) & \frac{1}{2}(-\mu - 13) & \frac{1}$$