1 Example FoxH-Bessel-J_2_9_18.wls

File content

```
(* (2.9.18) of Kilbas and Saigo 04 *)
{
  (* Upper List *) {
    (* Upper Front List *) {},
    (* Upper Rear List *)  {}
  },
  (* Lower List *) {
    (* Lower Front List *) {{(a+η)/2, 1}},
    (* Lower Rear List *)  {{(a-η)/1, 1}}
  }
}
```

Fox H-function

$$H_{0,2}^{1,0}\left(\cdot\,\middle|\,\begin{matrix} \\ \left(\frac{a+\eta}{2},1\right),(a-\eta,1)\end{matrix}\right)$$

$$H_{0,2}^{1,0}\left(\cdot\,\middle|\,\begin{array}{c|c} & \\ \hline \left(\frac{a+\eta}{2},1\right) & (a-\eta,1)\end{array}\right)$$

Summary

$$a^* = 0$$
$$\Delta = 2$$
$$\delta = \text{ComplexInfinity}$$
$$\mu = \frac{1}{2}(3a-\eta-2)$$
$$a_1^* = 1$$
$$a_2^* = -1$$
$$\xi = \frac{1}{2}(3\eta-a)$$
$$c^* = 0$$

Poles 1. First eight poles from upper front list

$$a_{i,k} = \{\}^T$$

2. First eight poles from lower front list

$$b_{j,\ell} = \begin{pmatrix} \frac{1}{2}(-a-\eta) \\ \frac{1}{2}(-a-\eta-2) \\ \frac{1}{2}(-a-\eta-4) \\ \frac{1}{2}(-a-\eta-6) \\ \frac{1}{2}(-a-\eta-8) \\ -\frac{a}{2}-\frac{\eta}{2}-5 \\ -\frac{a}{2}-\frac{\eta}{2}-6 \\ -\frac{a}{2}-\frac{\eta}{2}-7 \end{pmatrix}^T$$