1 Example **FoxH-2_9_12.wls**

File content

```
(* (2.9.12) of Kilbas and Saigo 04 *)
{
  (* Upper List *) {
    (* Upper Front List *) {{1/2,1},{1/2,1}},
    (* Upper Rear List *)  {}
  },
  (* Lower List *) {
    (* Lower Front List *) {{0,1}},
    (* Lower Rear List *)  {{-1/2,1}}
  }
}
```

Fox H-function

$$H_{2,2}^{1,2}\left(\cdot\left|\begin{array}{c}\left(\frac{1}{2},1\right),\left(\frac{1}{2},1\right)\\ \\ (0,1),\left(-\frac{1}{2},1\right)\end{array}\right.\right)$$

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

Summary

$$\begin{aligned}a^* &= 2\\ \Delta &= 0\\ \delta &= \text{ComplexInfinity}\\ \mu &= -\frac{3}{2}\\ a_1^* &= 1\\ a_2^* &= 1\\ \xi &= \frac{3}{2}\\ c^* &= 1\end{aligned}$$

Poles 1. First ten poles from upper front list

$$a_{i,k} = \begin{pmatrix} \frac{1}{2} & \frac{3}{2} & \frac{5}{2} & \frac{7}{2} & \frac{9}{2} & \frac{11}{2} & \frac{13}{2} & \frac{15}{2} & \frac{17}{2} & \frac{19}{2} & \frac{21}{2} \\ \\ \frac{1}{2} & \frac{3}{2} & \frac{5}{2} & \frac{7}{2} & \frac{9}{2} & \frac{11}{2} & \frac{13}{2} & \frac{15}{2} & \frac{17}{2} & \frac{19}{2} & \frac{21}{2} \end{pmatrix}$$

2. First ten poles from lower front list

$$b_{j,\ell} = \begin{pmatrix} 0 & -1 & -2 & -3 & -4 & -5 & -6 & -7 & -8 & -9 & -10 \end{pmatrix}$$