# 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},{(a-η)/2, 1}},
    (* Lower Rear List *)  {}
  }
}
```

**Fox H-function**

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

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

**Summary**

$$a^* = 2$$
$$\Delta = 2$$
$$\delta = \text{Indeterminate}$$
$$\mu = a - 1$$
$$a_1^* = 2$$
$$a_2^* = 0$$
$$\xi = a$$
$$c^* = 1$$

**Poles**  **1. First ten poles from upper front list**

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

**2. First ten poles from lower front list**

$$b_{j,\ell} = \begin{pmatrix} \frac{1}{2}(-a - \eta) & \frac{\eta - a}{2} \\ \frac{1}{2}(-a - \eta - 2) & \frac{1}{2}(-a + \eta - 2) \\ \frac{1}{2}(-a - \eta - 4) & \frac{1}{2}(-a + \eta - 4) \\ \frac{1}{2}(-a - \eta - 6) & \frac{1}{2}(-a + \eta - 6) \\ \frac{1}{2}(-a - \eta - 8) & \frac{1}{2}(-a + \eta - 8) \\ -\frac{a}{2} - \frac{\eta}{2} - 5 & \frac{1}{2}(-a + \eta - 10) \\ -\frac{a}{2} - \frac{\eta}{2} - 6 & \frac{1}{2}(-a + \eta - 12) \\ -\frac{a}{2} - \frac{\eta}{2} - 7 & \frac{1}{2}(-a + \eta - 14) \\ -\frac{a}{2} - \frac{\eta}{2} - 8 & \frac{1}{2}(-a + \eta - 16) \\ -\frac{a}{2} - \frac{\eta}{2} - 9 & \frac{1}{2}(-a + \eta - 18) \\ \frac{1}{2}(-a - \eta - 20) & \frac{1}{2}(-a + \eta - 20) \end{pmatrix}$$