# 1 Example `FoxH-Macdonald_function_2_9_33.wls`

**File content**

**Fox H-function**

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

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

**Summary**

$$a^* = \frac{c+2}{c}$$
$$\Delta = 1$$
$$\delta = \text{Indeterminate}$$
$$\mu = c\gamma - \gamma + \frac{1}{c} - \frac{3}{2}$$
$$a_1^* = \frac{1}{c} + 1$$
$$a_2^* = \frac{1}{c}$$
$$\xi = c\gamma + \gamma - \frac{1}{c} + 1$$
$$c^* = \frac{3}{2}$$

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

$$a_{i,k} = \left( \begin{array}{cccccccc} 1 - c\gamma & -\gamma c + c + 1 & 1 - c(\gamma - 2) & 1 - c(\gamma - 3) & 1 - c(\gamma - 4) & 1 - c(\gamma - 5) & 1 - c(\gamma - 6) \end{array} \right.$$

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

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