

# 1 Example FoxH-2\_9\_4.wls

File content

Fox H-function

$$H_{0,1}^{1,0} \left( . \left| \begin{array}{c} \\ (b, \beta) \end{array} \right. \right)$$

$$H_{0,1}^{1,0} \left( . \left| \frac{\quad}{(b, \beta)} \right| \right)$$

Summary

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

Poles 1. First eight poles from upper front list

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

2. First eight poles from lower front list

$$b_{j,\ell} = \left( -\frac{b}{\beta} \quad -\frac{b+1}{\beta} \quad -\frac{b+2}{\beta} \quad -\frac{b+3}{\beta} \quad -\frac{b+4}{\beta} \quad -\frac{b+5}{\beta} \quad -\frac{b+6}{\beta} \quad -\frac{b+7}{\beta} \right)$$

**Source** This example is from (2.9.4) of [KS04]:

$$H_{0,1}^{1,0}\left(z\left|\begin{array}{c} \\ (b,\beta)\end{array}\right.\right)=\frac{1}{\beta}z^{b/\beta}\exp\left(-z^{1/\beta}\right).$$

## References

- [KS04] Anatoly A. Kilbas and Megumi Saigo. *H-transforms*. Vol. 9. Analytical Methods and Special Functions. Theory and applications. Chapman & Hall/CRC, Boca Raton, FL, 2004, pp. xii+389. ISBN: 0-415-29916-0. DOI: [10.1201/9780203487372](https://doi.org/10.1201/9780203487372). URL: <https://doi.org/10.1201/9780203487372>.