$$H_{2,1}^{2,3}\left(\cdot \,\middle|\, \begin{matrix}(1,1),(\mathrm{Ceil}(\beta),\beta)\\ (\frac{d}{2},\frac{\alpha}{2}),(1,1),(1,\frac{\alpha}{2})\end{matrix}\right)$$

Summary

$$\begin{aligned}
a^* &= 2-\beta\\
\Delta &= \alpha-\beta\\
\delta &= 2^{-\alpha}\left(2^{\alpha/2}\alpha^{\alpha/2}+\alpha^{\alpha}\right)\beta^{-\beta}\\
\mu &= \frac{1}{2}(-2\mathrm{Ceil}(\beta)+d+1)\\
a_1^* &= \frac{1}{2}(\alpha-2\beta+2)\\
a_2^* &= 1-\frac{\alpha}{2}\\
\xi &= \frac{1}{2}(-2\mathrm{Ceil}(\beta)+d+2)\\
c^* &= \frac{1}{2}
\end{aligned}$$