LABJND colour-difference formula of CIE 230:2019
Main integral equations with $Y_r=Y/Y_u$ of surround u

error 0,0044

$$dY = A_1[1+A_2 Y] \qquad A_1=0{,}0170,\ A_2=0{,}3343 \qquad [5d]$$

$$dY_r = A_1[1+A_{2u} Y_r] \qquad A_1=0{,}0170,\ A_{2u}=5{,}931,\ Y_r=(Y/Y_u) \qquad [6d]$$

$$\frac{1}{A_1}\int \frac{dY_r}{1+A_{2u}Y_r} = \frac{1}{A_1 A_{2u}} \ln\left|1+A_{2u}Y_r\right| = F^*(Y_r) \quad (A_3=1) \qquad [6i]$$

0,0018

$$dY = A_1[1+A_2 Y]^{A_3} \qquad A_1=0{,}0251,\ A_2=0{,}1566,\ A_3=1{,}107 \qquad [7d]$$

$$dY_r = A_1[1+A_{2u}(Y_r)]^{A_3} \qquad A_1=0{,}0251,\ A_{2u}=2{,}778,\ A_3=1{,}107 \qquad [8d]$$

$$\frac{1}{A_1}\int \frac{dY_r}{[1+A_{2u}Y_r]^{A_3}} = \frac{1}{A_1}\,\frac{[1+A_{2u}Y_r]^{(A_3+1)}}{A_{2u}(A_3+1)} = F^*(Y_r) \quad (A_3 \# 1) \qquad [8i]$$