LABJND colour-difference formula of CIE 230:2019
Modifications with normalization to Y_u of surround

$dY=[A_1+A_2Y]^{A_3}$ error 0,0018 $A_1=0,0358, A_2=0,00561, A_3=1,107$ [9d]

$\quad=[A_1+A_{2u}(Y/Y_u)]^{A_3}$ $A_1=0,0358, A_{2u}=0,0995, A_3=1,107$ [10d]

$$\int \frac{dY}{(A_1+A_2Y)^{A_3}} = \frac{[A_1+A_2Y]^{(A_3+1)}}{A_2(A_3+1)} = F^*(Y) \qquad A_3\#1 \quad [9i]$$

$dY=A_1[1+A_2Y]^{A_3}$ 0,0018 $A_1=0,0251, A_2=0,1566, A_3=1,107$ [7d]

$\quad=A_1[1+A_{2u}(Y/Y_u)]^{A_3}$ $A_1=0,0251, A_{2u}=2,778, A_3=1,107$ [8d]

$$\frac{1}{A_1}\int \frac{dY}{[1+A_2Y]^{A_3}} = \frac{1}{A_1}\frac{[1+A_2Y]^{(A_3+1)}}{A_2(A_3+1)} = F^*(Y) \qquad A_3\#1 \quad [7i]$$

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