

$\log(\Delta Y/\Delta Y_u)$

relative LABJND1-tristimulus
value difference

$\Delta Y/\Delta Y_u$

2

100

$$L^*_{LABJND1} = (t/a) \ln(1 + a \cdot Y) \quad a=0.3411 \quad t/a=258.6$$

relative LABJND1-tristimulus value difference

1

10

$$\log(dY/dY_u) = \log[(1+a \cdot Y)/t] - \log[(1+a \cdot Y_u)/t]$$
$$= \log[(1+b \cdot (Y/Y_u))/t] - \log[(1+b)/t]$$

0

1

$$Y_u=18, dY_u=0.08, dY_u/Y_u=0.004$$

$$\log[(dY)/(dY_u)]=0, m_u=0.86$$

application
range

0,1

1

$Y_N=4$

10

$Y_u=18$

100

Y

$\log(Y)$