log [(Y/ΔY) / (Y_u/ΔY_u)]   **relative LABJND1–tristimulus**

$\log(S_r)$ $S_r/S_{ru}=(Y/\Delta Y)/(Y_u/\Delta Y_u)$ value contrast

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

relative LABJND1–tristimulus value contrast

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

Y_u=18, dY_u=0.08, Y_u/dY_u=222

$\log[(Y/dY)/(Y_u/dY_u)]$=0, m_u=-0.13

application range

Y_N=4   10 Y_u=18   100 Y

0,1   1   log(Y)

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