*NW*-achromatic thresholds $\Delta Y$ as function of $Y$

experiments and data: BAM-research report no. 115 (1985), page 72, see
$\log[\Delta Y]$      https://nbn-resolving.org/urn:nbn:de:kobv:b43-3350

**tristimulus value threshold $\Delta Y$, see LABJND in TR CIE 230:219**
*Validity of Formulae for predicting Small Colour Differences*

The performane of 8 datasets: http://files.cie.co.at/TC181_Datasets.zip
is best for LABJND in 5 cases, for CIELAB & CMC & CIEDE2000
all in one case, see Table 9 and 11 for the range $0 <= \Delta E^*_{ab} < 2$.

office-application range
according to ISO 9241-306

$\Delta Y = Y_2 - Y_1$

$Y_1$          $Y_2$

$Y_u = 18$

$Y_w = 90$

$Y_W = 90$

$\Delta Y = s + c \, Y = 0{,}017 + 0{,}0058 \, Y$

$\Delta Y / \Delta Y_u = (1 + 6{,}14 \, Y/Y_u) / (1 + 6{,}14)$

$\Delta Y_W$
$\Delta Y_u$
$\Delta Y_N$
$\Delta Y_{N1}$

$Y_{N1} = 0{,}9$      $Y_N = 3{,}6$      $Y_u = 18$

$\log Y$

eej11−7n