

$\log (\Delta Y/Y)$

CIE Y based contrast

$$C_T = (\Delta Y/Y)$$

-1+0.1

$-2 \leq \log(dY/Y) = -2.17, m_u = -0.13$
 $Y_u = 18, dY_u = 0.12, dY_u/Y_u = 0.006$

**application
range**

A number line for $\log(Y)$ with values $-3, -2, -1, 0, 1, 2$. Points are marked at -1 (0,1), 0 (1), 1 (10), and 2 (100). A vertical line is at $Y_u = 18$. A green dashed line segment is between 0 and 1 .

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