

double line element of *Richter*
(1987) for the lighting technic with
luminance $L = F(L, M, S)$

luminance signal function $F(L)$

$$F(L) = i Q(H) \quad H = e^{k(x-u)}$$

$$Q[\ln\{1 + 1/(1 + \sqrt{2}H)\}] / \ln\sqrt{2} - 1$$

Taylor-derivations:

$$\Delta F(L) = \frac{dF}{dL} \Delta L = i \frac{dQ}{dH} \Delta H$$

$$= -i\sqrt{2} \Delta H / [\ln\sqrt{2}(1 + \sqrt{2}H)(2 + \sqrt{2}H)]$$