

line element of *Stiles*

(1946) with „color values” P , D , T

three separate color signal functions

$$F(P) = i \ln(1 + 9P)$$

$$F(D) = j \ln(1 + 9D)$$

$$F(T) = k \ln(1 + 9T)$$

Taylor-derivations:

$$\begin{aligned} \Delta F(P, D, T) &= \frac{dF}{dP} \Delta P + \frac{dF}{dD} \Delta D + \frac{dF}{dT} \Delta T \\ &= \frac{9i}{1+9P} \Delta P + \frac{9j}{1+9D} \Delta D + \frac{9k}{1+9T} \Delta T \end{aligned}$$