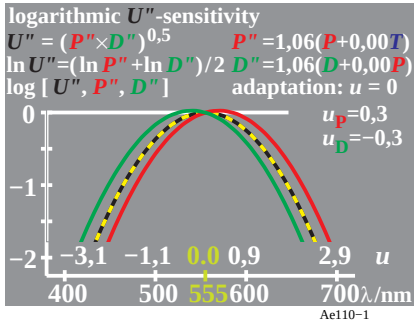

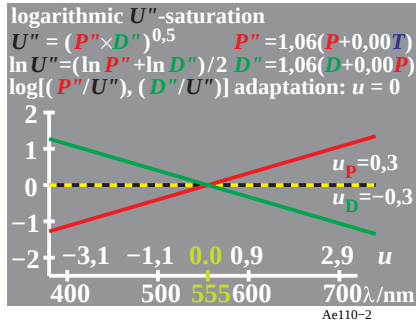

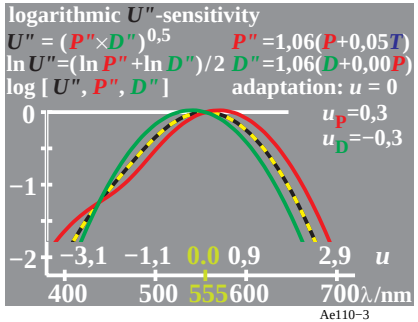

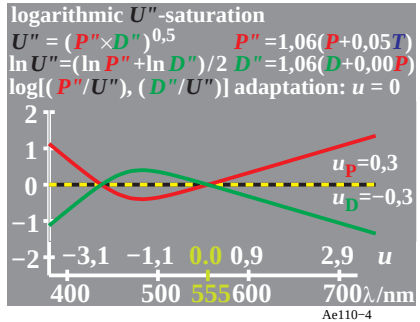

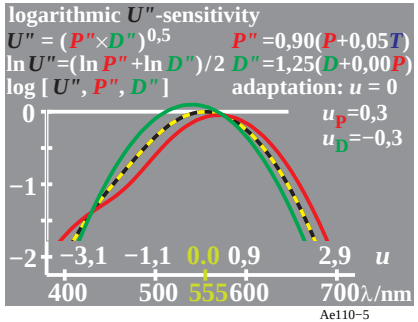

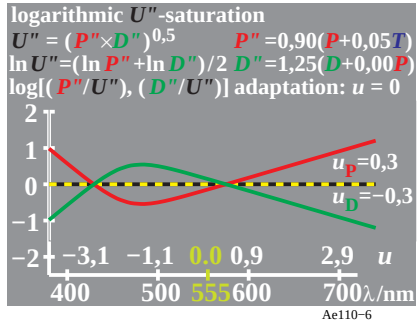

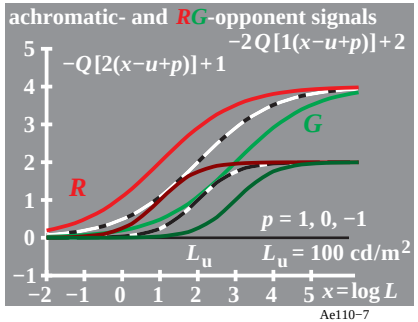

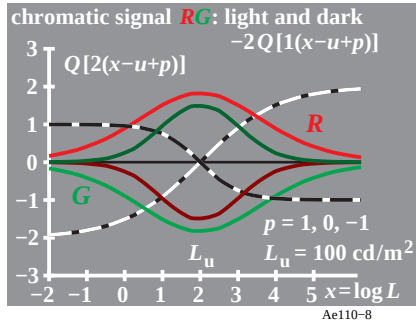

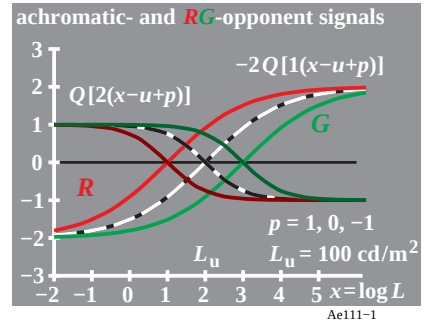

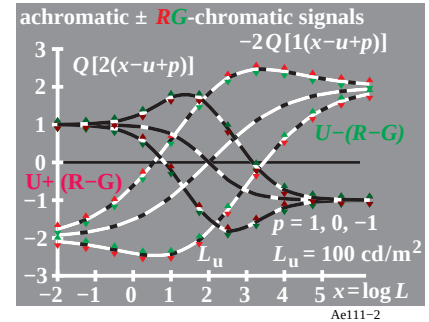

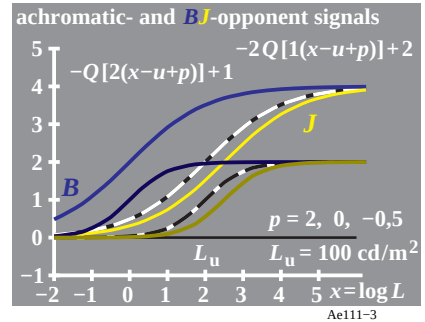

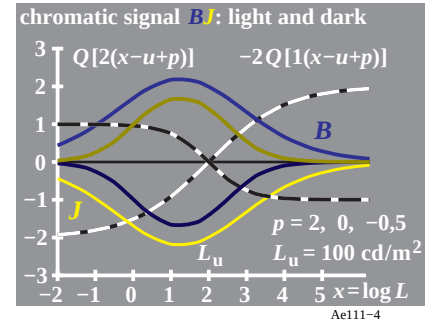

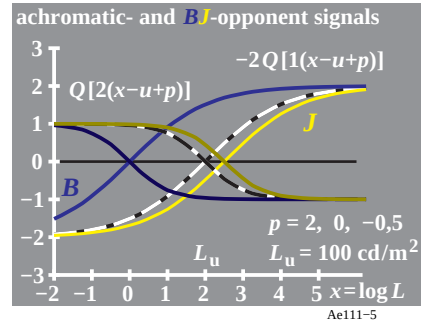

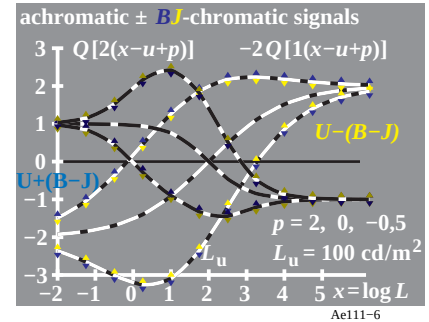

line element of light technology (luminance *L*) and color metrics with „color values” *P*, *D*, *T*

luminance signal function *F*(*L*)
color signal functions *F*(*P*, *D*, *T*)

***Taylor*-derivations:**

$$\Delta F(L)=\frac{dF}{dL}\Delta L$$

$$\Delta F(P,D,T)=\frac{dF}{dP}\Delta P+\frac{dF}{dD}\Delta D+\frac{dF}{dT}\Delta T$$

Ae111−7

line element of *Helmholtz* (1896) with „color values” *P*, *D*, *T*

three separate color signal functions

$F(P) = i \ln P$
$F(D) = j \ln D$
$F(T) = k \ln T$

***Taylor*-derivations:**

$$\Delta F(P,D,T)=\frac{dF}{dP}\Delta P+\frac{dF}{dD}\Delta D+\frac{dF}{dT}\Delta T$$

$$\Delta F(P,D,T)=\frac{i}{P}\Delta P+\frac{j}{D}\Delta D+\frac{k}{T}\Delta T$$

Ae111−8