

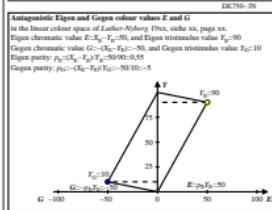
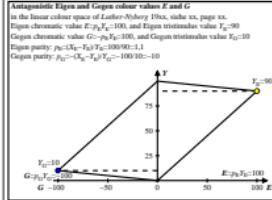
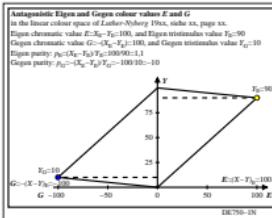


<http://farbe.li.tu-berlin.de/DE75/DE75L0N1.TXT> /PS  
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 1/1

For more information about the study, please contact Dr. John D. Cawley at (609) 258-4626 or via email at [jdcawley@princeton.edu](mailto:jdcawley@princeton.edu).

see similar files: <http://Farbe.li.tu-berlin.de/DE75/DE75.HTM>  
technical information: <http://Farbe.li.tu-berlin.de> or <http://130.>

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DE792-4N

Anisotropic Eigen and Gegen colour values  $E$  and  $G$

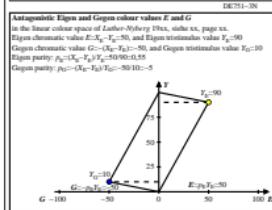
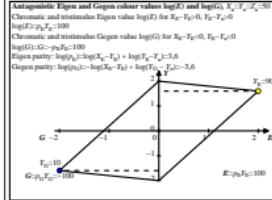
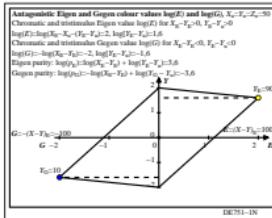
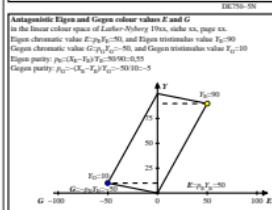
In linear colour space,  $E = 100$ ,  $G = 100$ ,  $b = 100$ , units vs. page 10.

Eigen chromatic value  $E_{\text{Eigen}} = Y_{\text{Eigen}} = 70$ , and Eigen luminance value  $T_{\text{Eigen}} = 90$ .

Gegen chromatic value  $G_{\text{Gegen}} = Y_{\text{Gegen}} = 50$ , and Gegen luminance value  $T_{\text{Gegen}} = 10$ .

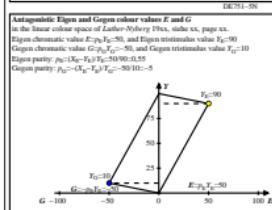
Eigen purity:  $p_{\text{E}} = (Y_{\text{Eigen}} - Y_{\text{Gegen}}) / (50 - 70) = 0.55$

Gegen purity:  $p_{\text{G}} = (Y_{\text{Gegen}} - Y_{\text{Eigen}}) / (70 - 50) = 0.55$



DE751-1N

**Anatropistic Eigen and Gegen colour values E and G**  
 Anatropic colour values  $E_{\text{Gegen}} = 100$ ,  $G = 100$ ,  $\text{magenta}$ , page 10.  
 Eigen chromatic value  $E_{\text{Eigen}} = 70$ , and Gegenchromatic value  $E_{\text{Gegen}} = 90$   
 Chromatic value  $G = -(E_{\text{Gegen}} - E_{\text{Eigen}})$ , and Gegen chromatic value  $E_{\text{Gegen}} = 10$   
 Eigen purity:  $p_{\text{E}} = (E_{\text{Eigen}} - E_{\text{Gegen}})/100 = 0.55$   
 Gegen purity:  $p_{\text{G}} = (E_{\text{Gegen}} - E_{\text{Eigen}})/100 = 0.45$



DEUT-5N

Anatragonic Eigen and Gegen colour values  $E$  and  $G$  in the linear color space of the CIE-McPherson-McLellan 1976, such as, magenta, cyan, yellow, black, etc.

$E_{\text{Eigen}} = E_{\text{Gegen}} = 50$ ,  $G_{\text{Eigen}} = G_{\text{Gegen}} = 50$ ,  $B_{\text{Eigen}} = B_{\text{Gegen}} = 50$

Gegen chromatic value  $G_{\text{Eigen}} = 50$  and Gegen tristimulus value  $E_{\text{Gegen}} = 50$

Eigen purity:  $p_{\text{E}} = (X_E - Y_E) / (Y_E - 50) = 0.35$

Gegen purity:  $p_{\text{G}} = (X_G - Y_G) / (Y_G - 50) = -0.55$

