

<http://farbe.li.tu-berlin.de/hec3/hec310np.pdf> /.ps; only vector graphic VG; start output  
see separate images of this page: <http://farbe.li.tu-berlin.de/hec3/hec3.htm>

```
*****  
/proc05_gammaL_xyreh {%BEG proc05_gammaL_xyreh %BEG proc05_gammaL_xyreh  
%BEG Local (L) gamma and calculation of xyreh1024  
/gammaLi 21 array def  
/gammaLi %rel, gamma according to ISO 9241-306:2018  
% 1 2 3 4 5 6 7  
[0.475 0.550 0.625 0.700 0.775 0.849 0.924 1.000  
% 8 9 10 11 12 13 14 15  
1.000 1.081 1.176 1.290 1.428 1.600 1.818 2.105  
% 16 17 18 19 20  
2.000 0.500 1.500 0.666 1.000] def  
  
/gamma gammaLi indexPi get def  
/xrehj 1024 array def /yrehj 1024 array def  
/xinhj 1024 array def /yinhj 1024 array def  
  
%calculation of the table xyreh1024 (h=hex) of real values (reh) with gamma  
0 1 1023 {/j exch def %j=0,1023  
xrehj j j put  
yrehj j j 1023 div gamma exp 1023 mul cvi put  
} for %j=0,1023  
/proc06_FF_LM_FLVLF {%BEG proc06_FF_LM_FLVLF %BEG proc06_FF_LM_FLVLF  
/yed exch def  
/yeh yed 1023 mul cvi def  
/xinh yrehj yeh get def  
/xinhj 1023 div  
} def %END proc06_FF_LM_FLVLF  
%END proc06_FF_LM_FLVLF  
%END proc05_gammaL_xyreh  
*****  
/proc00_LMR_FLVLF {%BEG proc00_LMR_FLVLF %BEG proc00_FF_LM_FLVLF  
%main procedure Fast Linear Visual Local File (FLVLF)  
  
/FF_LM_setgrayFLVLF0 {setgray} bind def  
/FF_LM_setrgbcolorFLVLF0 {setrgbcolor} bind def  
/FF_LM_setcmkcolorFLVLF0 {setcmkcolor} bind def  
/FF_LM_transferFLVLF0 {settransfer} bind def  
/FF_LM_colortransferFLVLF0 {setcolortransfer} bind def  
  
/setgray {%BEG procedure setgrayFLVLF setgray -> FF_LM_setrgbcolorG  
dup dup FF_LM_setrgbcolorFLVLF  
} def %END procedure setgrayFLVLF  
  
/setcmkcolor {%BEG procedure setcmkcolorFLVLF setcmkcolor -> FF_LM_setrgbcolorG  
/FF_LM_kFLVLF exch def /FF_LM_yFLVLF exch def  
/FF_LM_mFLVLF exch def /FF_LM_cFLVLF exch def  
FF_LM_kFLVLF 0 eq {1 FF_LM_cFLVLF sub 1 FF_LM_mFLVLF sub  
1 FF_LM_yFLVLF sub FF_LM_setrgbcolorFLVLF}  
{1 FF_LM_kFLVLF sub dup  
FF_LM_setrgbcolorFLVLF} ifelse  
} def %END procedure setcmkcolorFLVLF  
  
/setrgbcolor {%BEG procedure setrgbcolorFLVLF setrgbcolor -> FF_LM_setrgbcolorG  
/FF_LM_bFLVLF exch def /FF_LM_gFLVLF exch def  
/FF_LM_rFLVLF exch def  
FF_LM_rFLVLF FF_LM_gFLVLF FF_LM_bFLVLF  
FF_LM_setrgbcolorFLVLF  
} def %BEG procedure setrgbcolorFLVLF  
  
/FF_LM_setrgbcolorFLVLF {%BEG FF_LM_setrgbcolorFLVLF FF_LM_setrgbcolorG -> FF_LM_setrgbcolorG0  
/FF_LM_b0FLVLF exch def /FF_LM_g0FLVLF exch def  
/FF_LM_r0FLVLF exch def  
FF_LM_r0FLVLF 0 le {/FF_LM_r0FLVLF 0.0001 def} if  
FF_LM_g0FLVLF 0 le {/FF_LM_g0FLVLF 0.0001 def} if  
FF_LM_b0FLVLF 0 le {/FF_LM_b0FLVLF 0.0001 def} if  
/FF_LM_r1FLVLF FF_LM_r0FLVLF proc06_FF_LM_FLVLF def  
/FF_LM_g1FLVLF FF_LM_g0FLVLF proc06_FF_LM_FLVLF def  
/FF_LM_b1FLVLF FF_LM_b0FLVLF proc06_FF_LM_FLVLF def  
FF_LM_r1FLVLF FF_LM_g1FLVLF FF_LM_b1FLVLF  
FF_LM_setrgbcolorFLVLF0} def %END FF_LM_setrgbcolorFLVLF  
  
/FF_LM_transferFLVLF {%BEG FF_LM_transferFLVLF settransferG -> FF_LM_settransferG0  
{proc06_FF_LM_FLVLF}  
FF_LM_transferFLVLF0} def %END FF_LM_transferFLVLF  
/settransfer {FF_LM_transferFLVLF} def  
  
/FF_LM_colortransferFLVLF {%BEG FF_LM_colortransferFLVLF setcolortransferG->FF_LM_setcolortransferG0  
{proc06_FF_LM_FLVLF} {proc06_FF_LM_FLVLF}  
{proc06_FF_LM_FLVLF}  
FF_LM_colortransferFLVLF0} def  
/setcolortransfer {FF_LM_colortransferFLVLF} def  
} def %END proc00_FF_LM_FLVLF  
%END proc00_FF_LM_FLVLF  
*****  
/indexPi 07 def %default for gammaL=1.000  
/iproclMR 1 def %optional application example  
/iproclMR 1 eq {%main Frame_File_Linearisation_Method (FF_LM)%Example: combined procedure  
proc00_LMR_FLVLF proc05_gammaL_xyreh} if  
*****
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hec30-7n

TUB-test chart hec3; EPS-example code of eps images, see EPS code FLVLF within  
<http://color.li.tu-berlin.de/hec0/hec010np.txt> and in images <http://color.li.tu-berlin.de/hecs.htm>

```
*****  
/proc00_7data_FLVLF {%BEG proc00_7data_FLVLF %BEG proc01_7data_FLVLF  
%The procedure proc01_7data_FLVLF is used only once in Local File  
/VisexLi 09 array def %for the one real data of visual evaluation  
/VisexLx 54 array def %for 6 different example data of visual evaluation  
% $0 $1 $2 $3 $4 $5 $6 $7 $8 $f1 j  
/VisexLx [0.000 0.015 0.062 0.140 0.250 0.390 0.562 0.765 1.000 %16 08 gamma=2,0  
0.000 0.353 0.500 0.612 0.707 0.790 0.866 0.935 1.000 %17 17 gamma=0,5  
0.000 0.044 0.125 0.229 0.353 0.494 0.649 0.818 1.000 %18 26 gamma=1,5  
0.000 0.250 0.397 0.520 0.630 0.731 0.825 0.915 1.000 %19 35 gamma=0,6667  
0.000 0.125 0.250 0.375 0.500 0.625 0.750 0.875 1.000 %20 44 gamma=1,0  
0.000 0.125 0.250 0.375 0.500 0.625 0.750 0.875 1.000 %21 53 experimental  
] def %5 53  
% the last line shall be replaced by the experimental data, if available  
  
0 1 8 {/j exch def %j=0,8  
VisexLi j VisexLx indexLi 16 sub 9 mul j add get put  
} for %j=0,8  
} def %END proc01_7data_FLVLF  
%END proc01_7data_FLVLF  
*****  
/proc02_Visev_FLVLF {%BEG proc02_Visev_FLVLF %BEG proc02_Visev_FLVLF  
%for visual data with Fast Linear Visual Local File (FLVLF)  
%The procedure proc01_7data_FLVLF is used only once in Local File  
/xreh8 10 array def /yreh8 10 array def %re=real, j=0,8  
/xinh8 10 array def /yinh8 10 array def %in=invers, j=0,8  
/xrehj 1025 array def /yrehj 1025 array def  
/xinhj 1025 array def /yinhj 1025 array def  
  
/xred8 10 array def /yred8 10 array def %re=real, j=0,8  
/xind8 10 array def /yind8 10 array def %in=invers, j=0,8  
/xredj 1025 array def /yredj 1025 array def  
/xindj 1025 array def /yindj 1025 array def  
  
0 1 8 {/j exch def %j=0,8  
xred8 j j 0.125 mul put  
yred8 j VisexLi j get put  
xind8 j yred8 j get put  
yind8 j xred8 j get put  
  
xreh8 j xred8 j get 255 mul put  
yreh8 j yred8 j get 255 mul put  
xinh8 j yreh8 j get put  
yinh8 j xreh8 j get put  
} for %j=0,8  
  
xred8 9 1 put yred8 9 1 put  
xind8 9 1 put yind8 9 1 put  
xreh8 9 255 put yreh8 9 255 put  
xind8 9 255 put yind8 9 255 put  
  
%j=0,1023  
0 1 7 {/k exch def %k=0,8  
0 1 127 {/n exch def %n=0,127  
/j k 128 mul n add def  
xredj j j 1023 div put  
yredj j yred8 k 1 add get yred8 k get sub  
n 128 div mul yred8 k get add put  
xindj j yredj j get put  
yindj j xredj j get put  
} for %n=0,127  
} for %k=1,8  
  
0 1 1023 {/j exch def %j=0,1023  
xrehj j xredj j get 1023 mul put  
yrehj j yredj j get 1023 mul put  
xinhj j yredj j get put  
yinhj j xredj j get put  
} for %j=0,1023  
xredj 1024 1 put yredj 1024 1 put  
xindj 1024 1 put yindj 1024 1 put  
xrehj 1024 1023 put yrehj 1024 1023 put  
xinhj 1024 1023 put yinhj 1024 1023 put  
} def %END proc01_Visev_FLVLF  
%END proc01_Visev_FLVLF  
*****  
/proc00_FF_LM_FLVLF {%BEG proc00_FF_LM_FLVLF %BEG proc00_FF_LM_FLVLF  
%This procedure is used for any rgb data in proc00_LMR_FLVLF  
/yed exch def  
/yeh yed 1023 mul cvi def  
/xinh yrehj yeh get def  
/xinhj 1023 div  
} def  
%END proc00_FF_LM_FLVLF  
%END proc00_FF_LM_FLVLF  
*****  
/indexLi 20 def %default for gammaL=1.000  
/iproclMR 1 def %optional application example  
/iproclMR 1 eq {%main program Frame_File_Linearisation_Method (FF_LM) %Example: combined procedure  
proc00_LMR_FLVLF proc01_7data_FLVLF proc02_Visev_FLVLF} if  
*****
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hec31-7n

TUB-test chart hec3; EPS-example code of eps images, see EPS code FLVLF within  
<http://color.li.tu-berlin.de/hec0/hec010np.txt> and in images <http://color.li.tu-berlin.de/hecs.htm>

see similar files of the whole serie: <http://farbe.li.tu-berlin.de/hecs.htm>  
technical information: <http://farbe.li.tu-berlin.de> or <http://color.li.tu-berlin.de>

TUB registration: 20241001-hec3/hec310np.pdf /.ps  
application for evaluation and measurement of display or print output  
TUB material: code=rh4ta