logarithmic L_a-data

$L_a = (R_o \cdot G_o)^{0,5}$

$\log L_a = (\log R_o + \log G_o)/2$

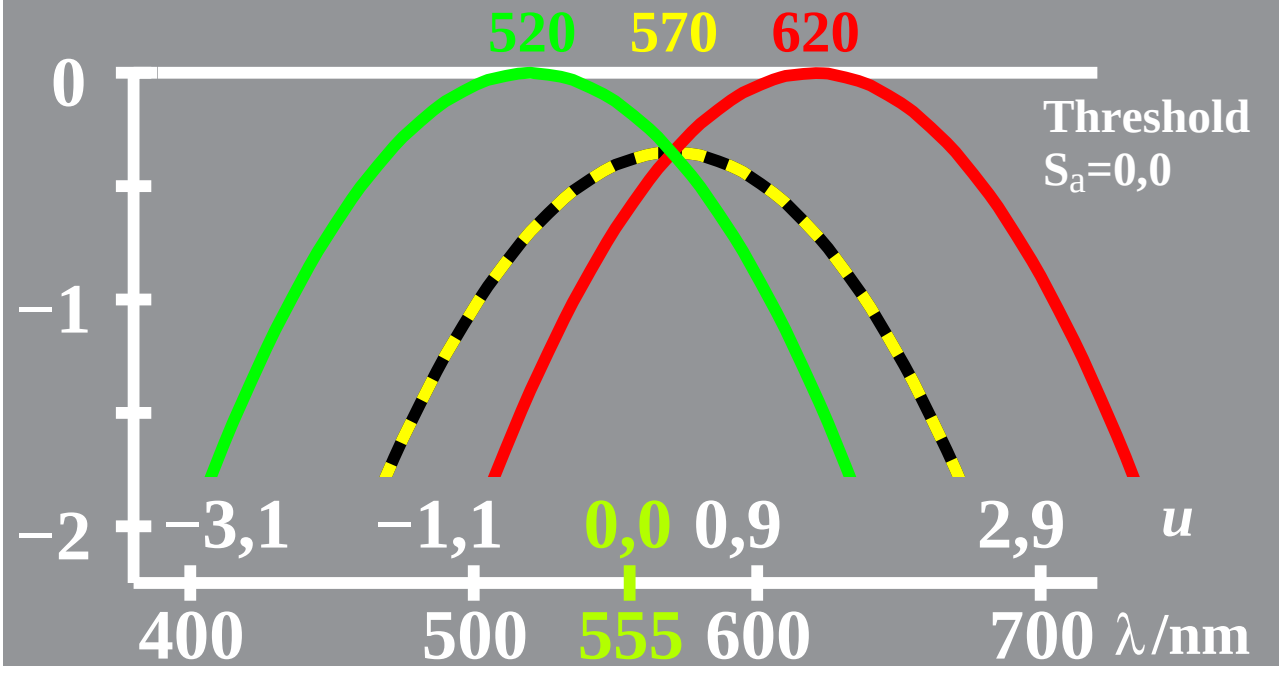
$\log [\ L_a, R_o, G_o\ ]$

$u_\lambda = (\lambda - 555) / 50$

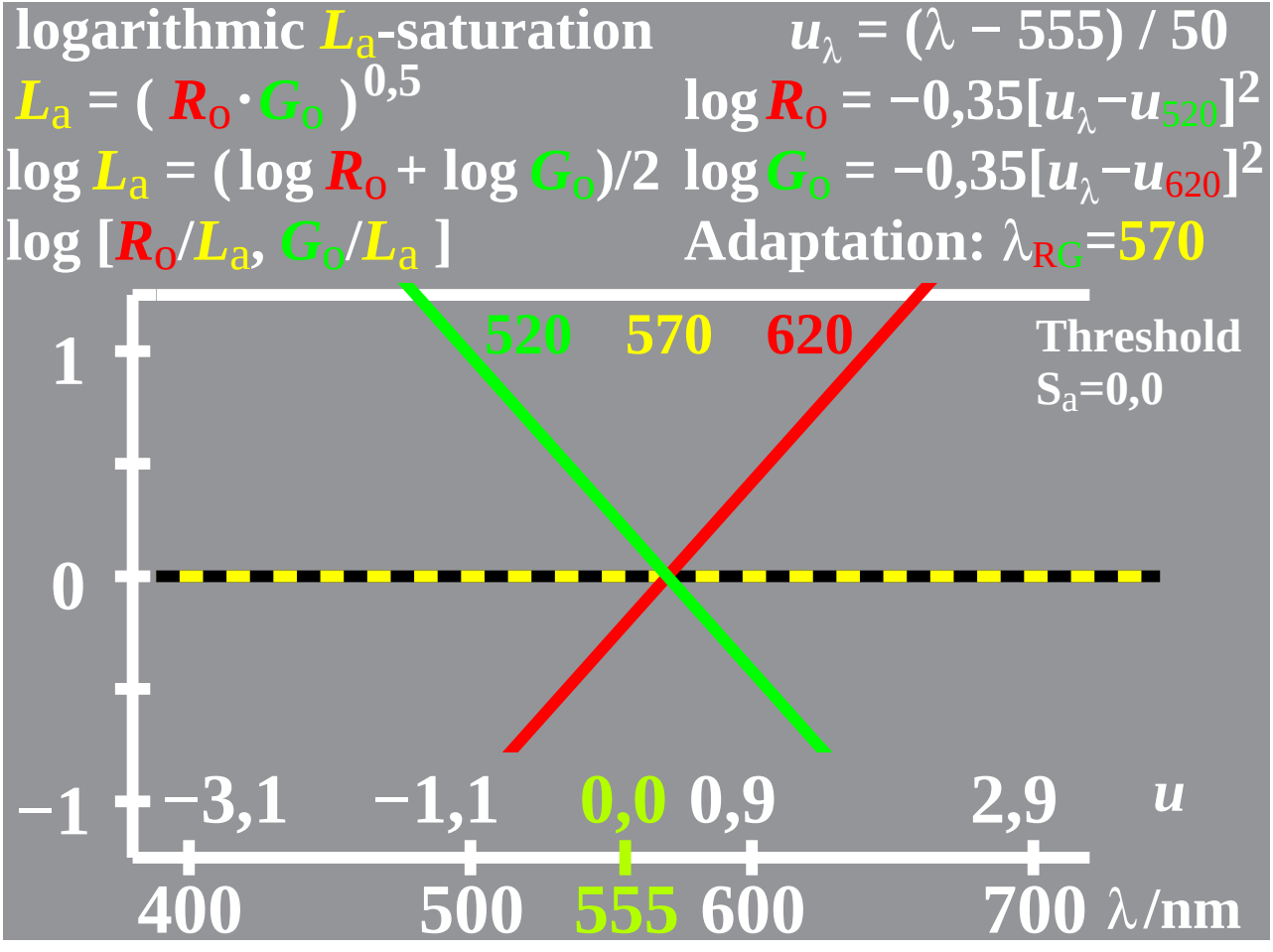
$\log R_o = -0{,}35[u_\lambda - u_{520}]^2$

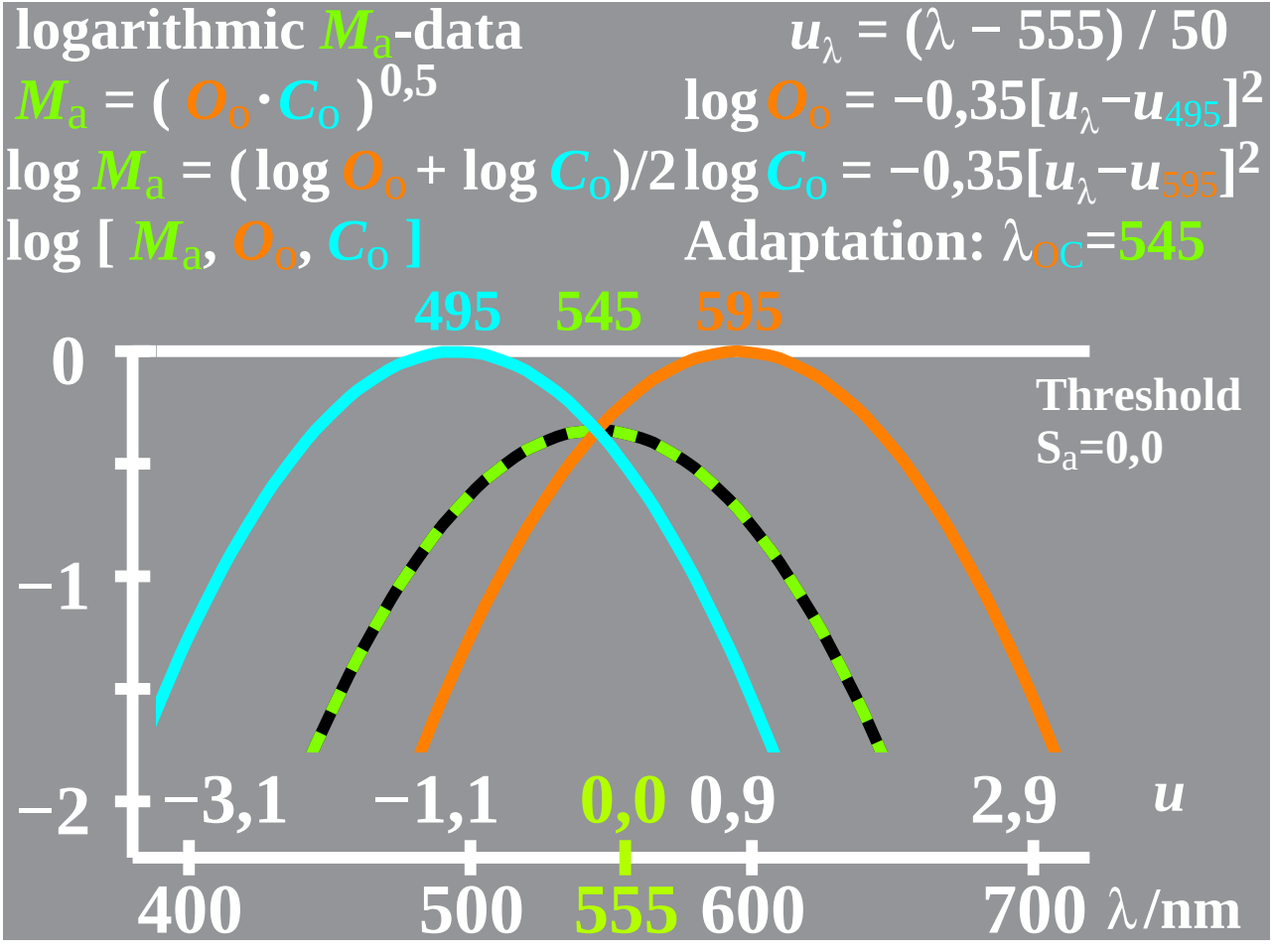
$\log G_o = -0{,}35[u_\lambda - u_{620}]^2$

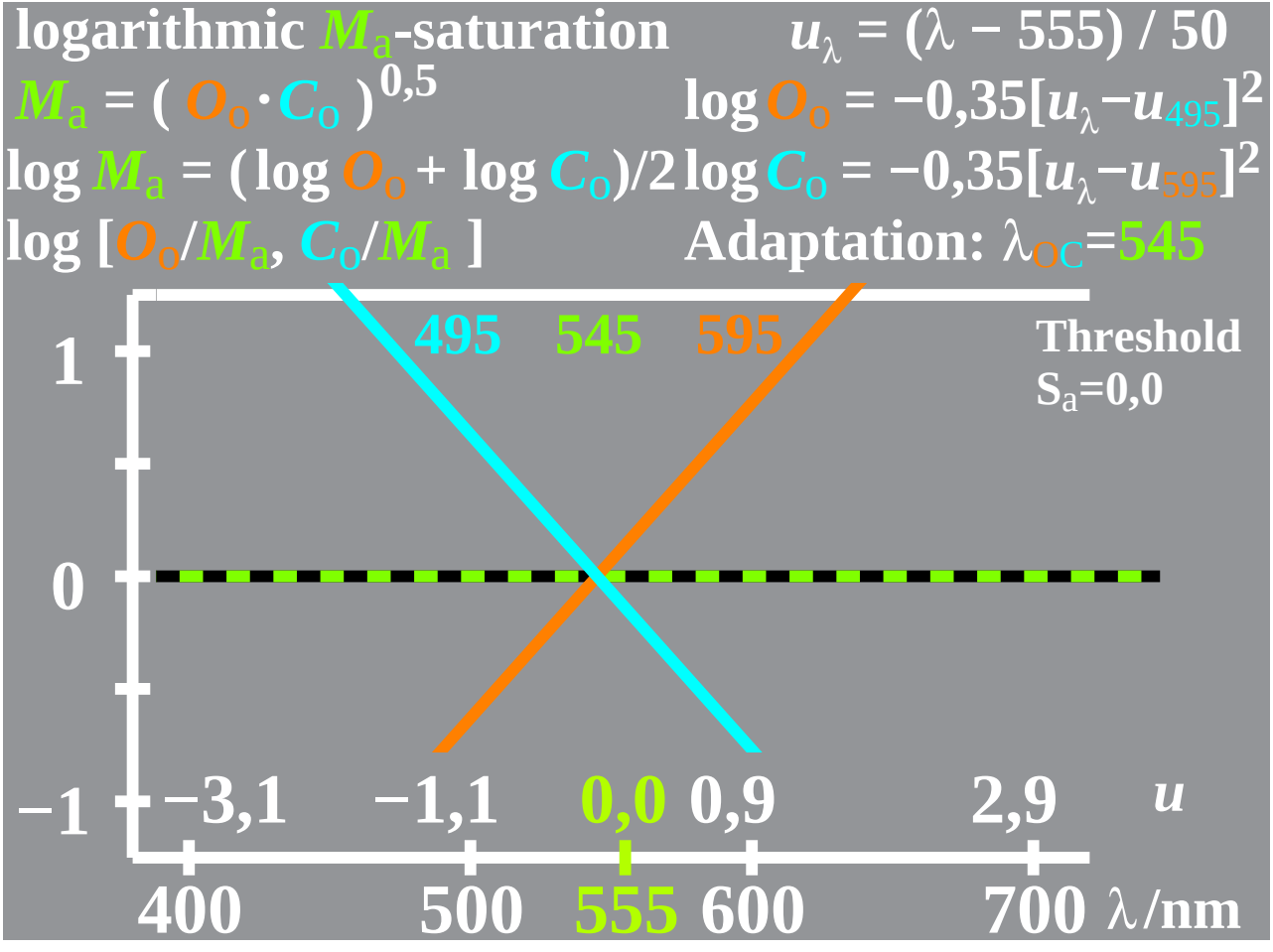
Adaptation: λ_{RG}=570

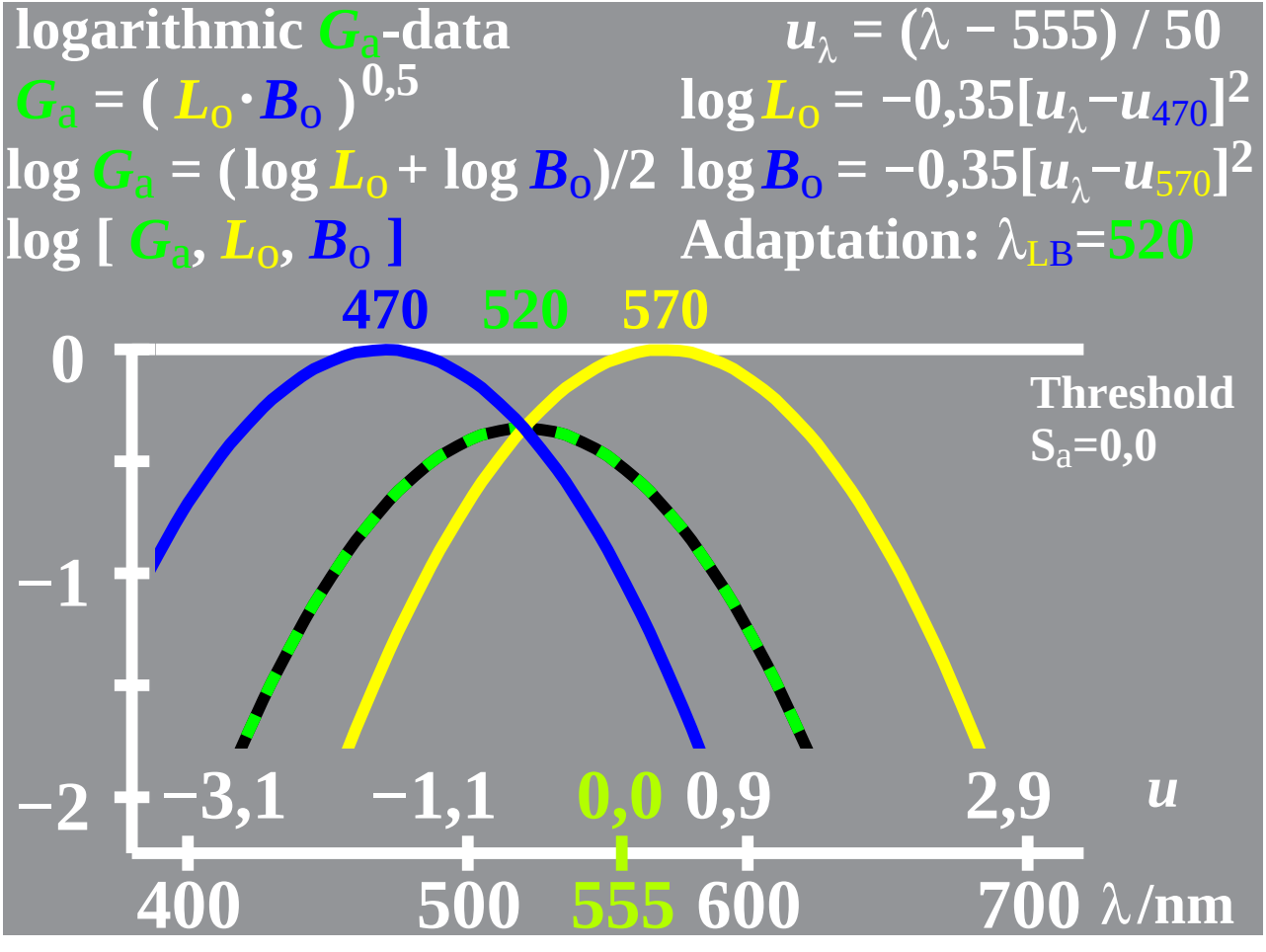


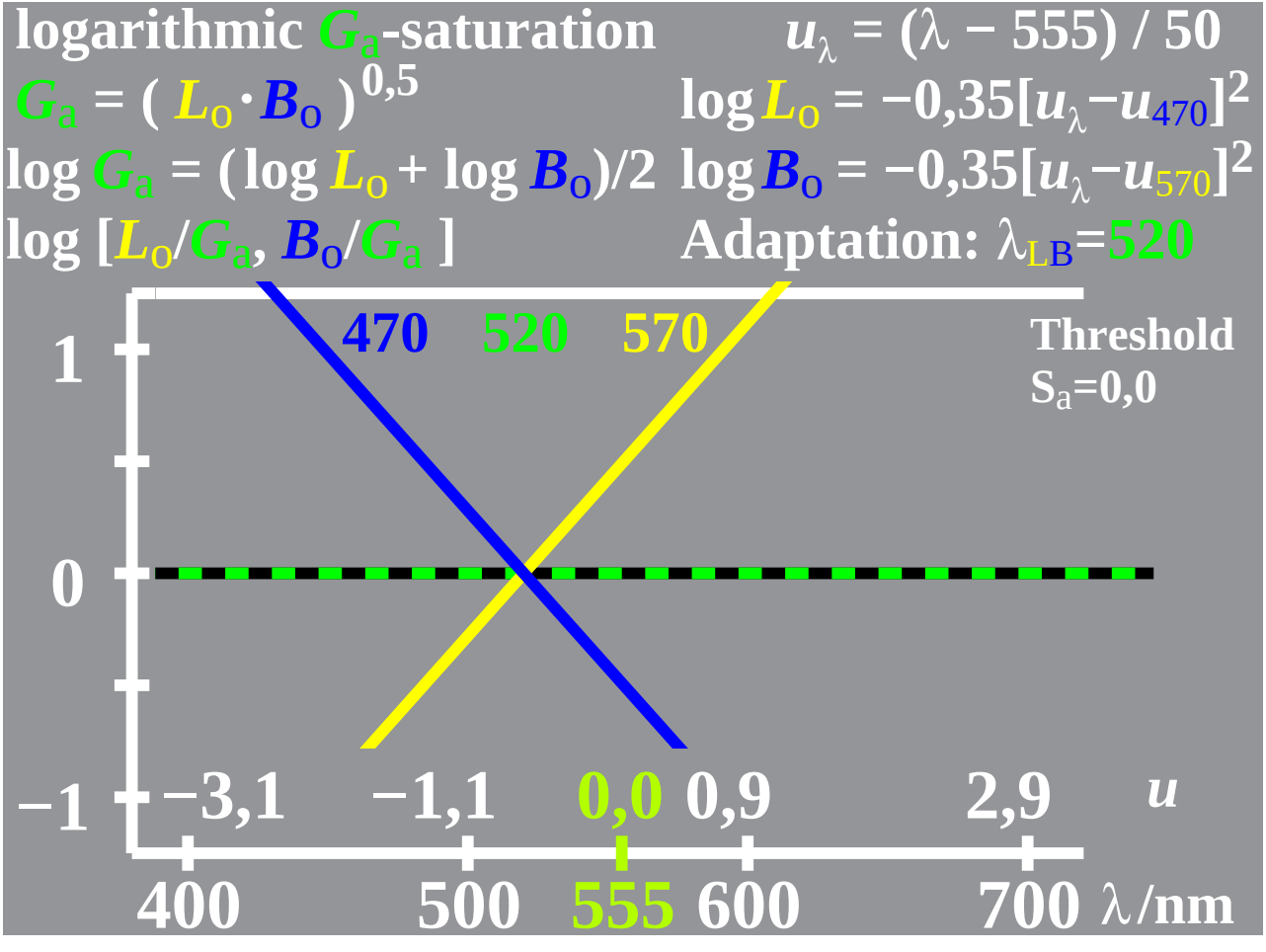
TE300−7A

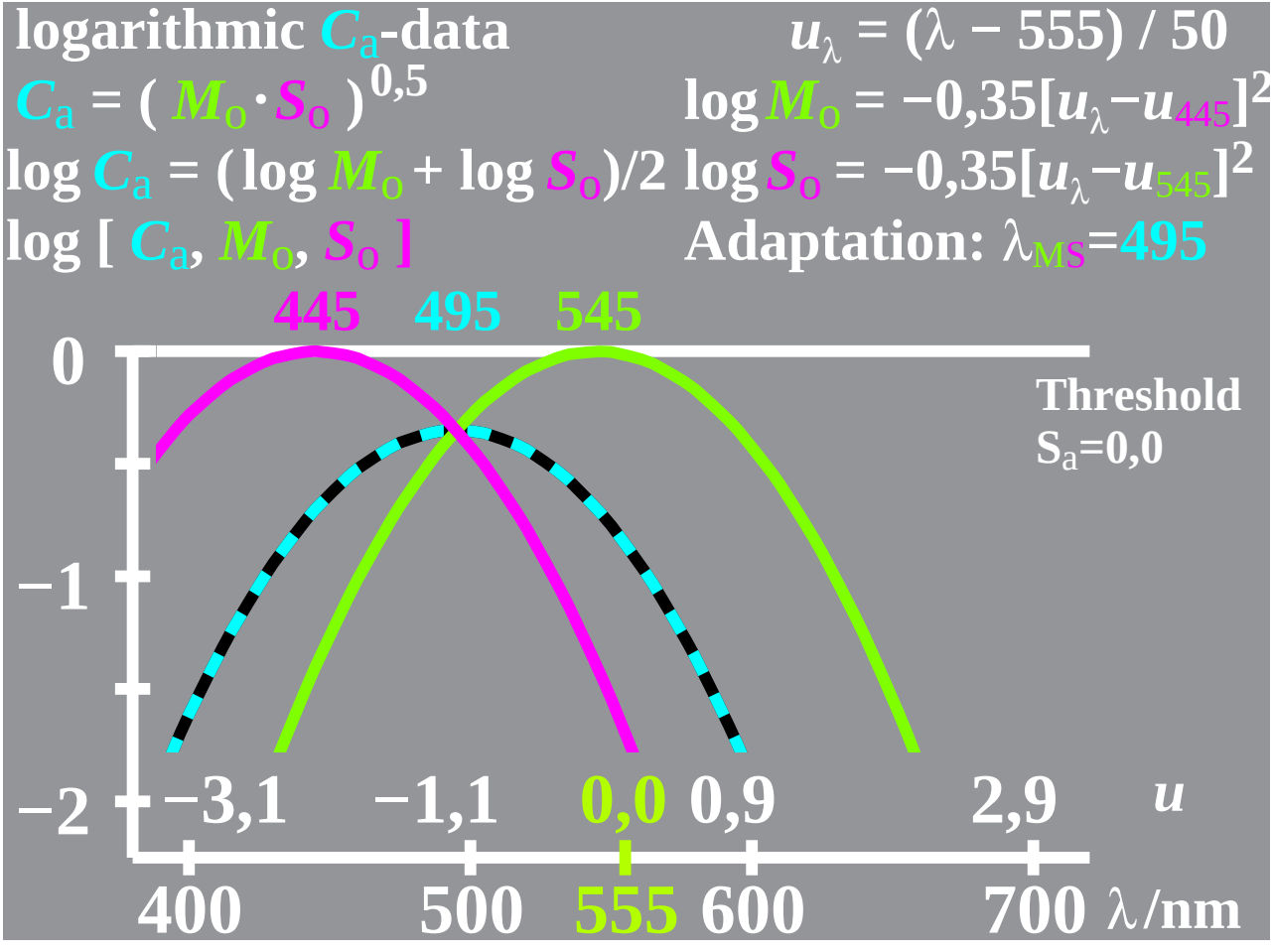

logarithmic L_a-saturation
$u_\lambda = (\lambda - 555) / 50$
$L_a = (R_o \cdot G_o)^{0,5}$
$\log R_o = -0{,}35[u_\lambda - u_{520}]^2$
$\log L_a = (\log R_o + \log G_o)/2$
$\log G_o = -0{,}35[u_\lambda - u_{620}]^2$
$\log [R_o/L_a, G_o/L_a]$
Adaptation: λ_{RG}=570
520
570
620
Threshold
S_a=0,0
1
0
−1
−3,1
−1,1
0,0
0,9
2,9
u
400
500
555
600
700
λ/nm

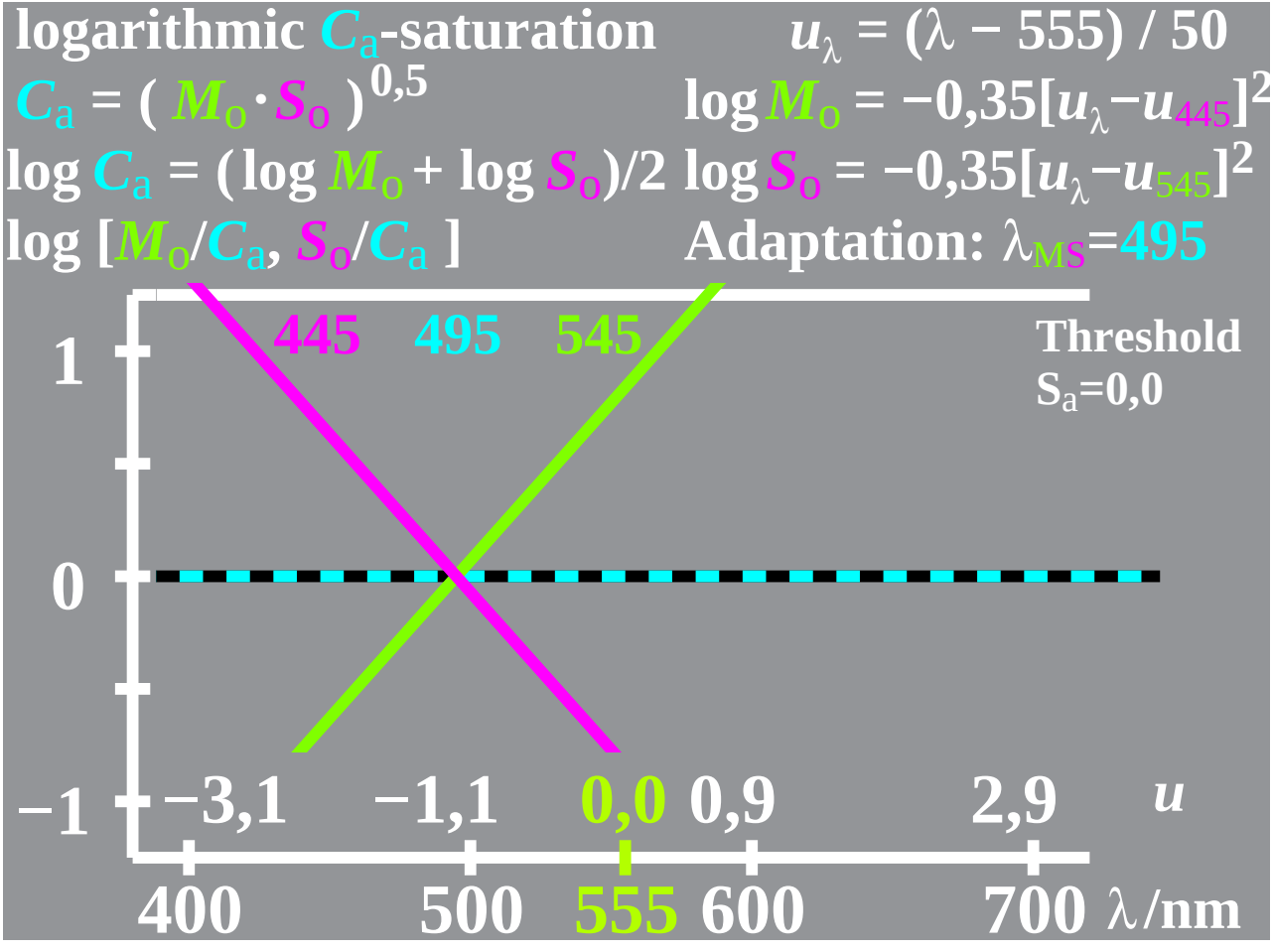

logarithmic M_a-data
$u_\lambda = (\lambda - 555) / 50$
$M_a = (O_o \cdot C_o)^{0,5}$
$\log O_o = -0{,}35[u_\lambda - u_{495}]^2$
$\log M_a = (\log O_o + \log C_o)/2$
$\log C_o = -0{,}35[u_\lambda - u_{595}]^2$
$\log [M_a, O_o, C_o]$
Adaptation: λ_{OC}=545
495
545
595
0
−1
−2
Threshold
S_a=0,0
−3,1
−1,1
0,0
0,9
2,9
u
400
500
555
600
700
λ/nm

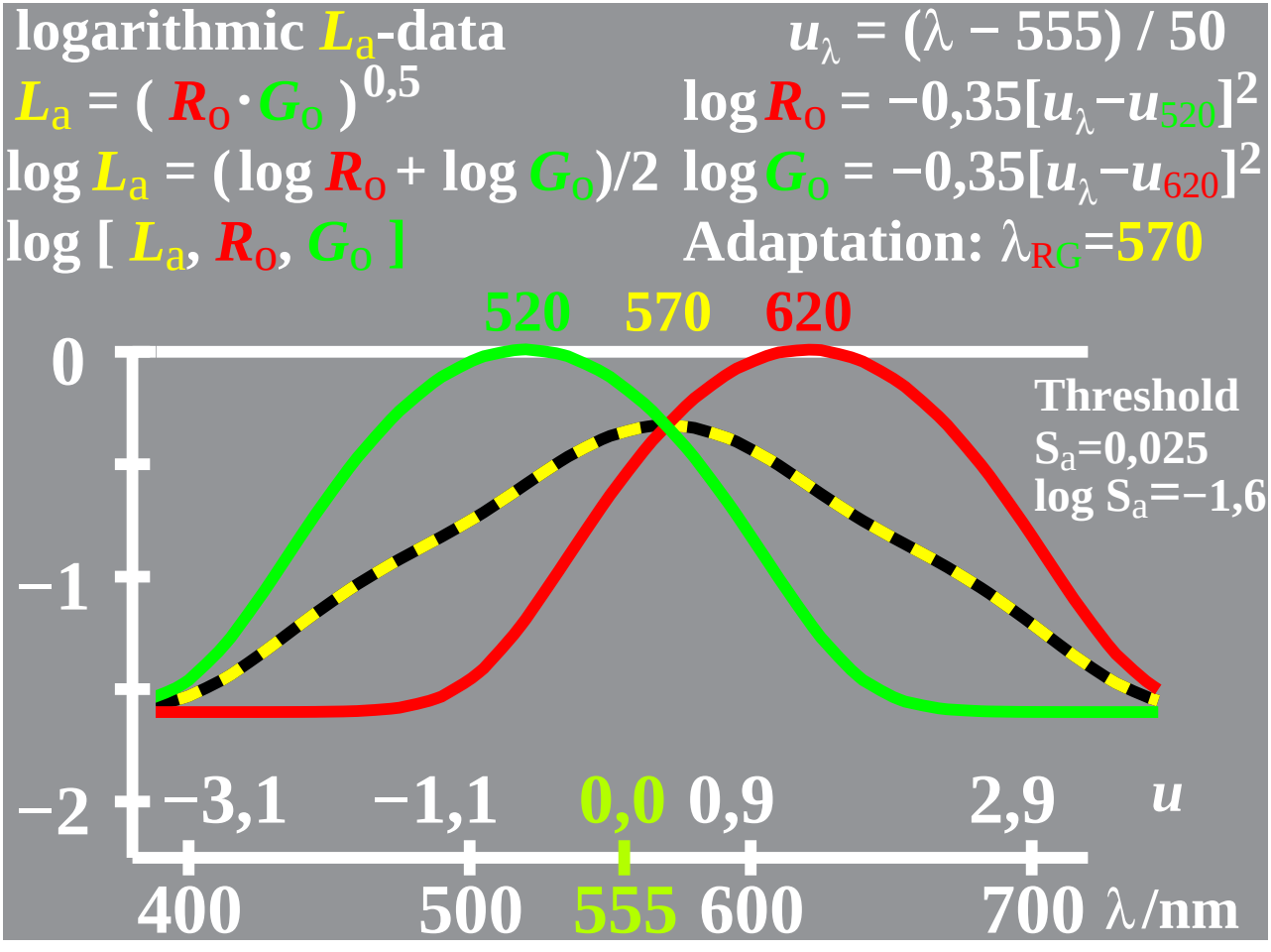

logarithmic M_a-saturation
$u_\lambda = (\lambda - 555) / 50$
$M_a = (O_o \cdot C_o)^{0,5}$
$\log O_o = -0{,}35[u_\lambda - u_{495}]^2$
$\log M_a = (\log O_o + \log C_o)/2$
$\log C_o = -0{,}35[u_\lambda - u_{595}]^2$
$\log [O_o/M_a, C_o/M_a]$
Adaptation: λ_{OC}=545
495
545
595
Threshold
S_a=0,0
1
0
−1
−3,1
−1,1
0,0
0,9
2,9
u
400
500
555
600
700
λ/nm

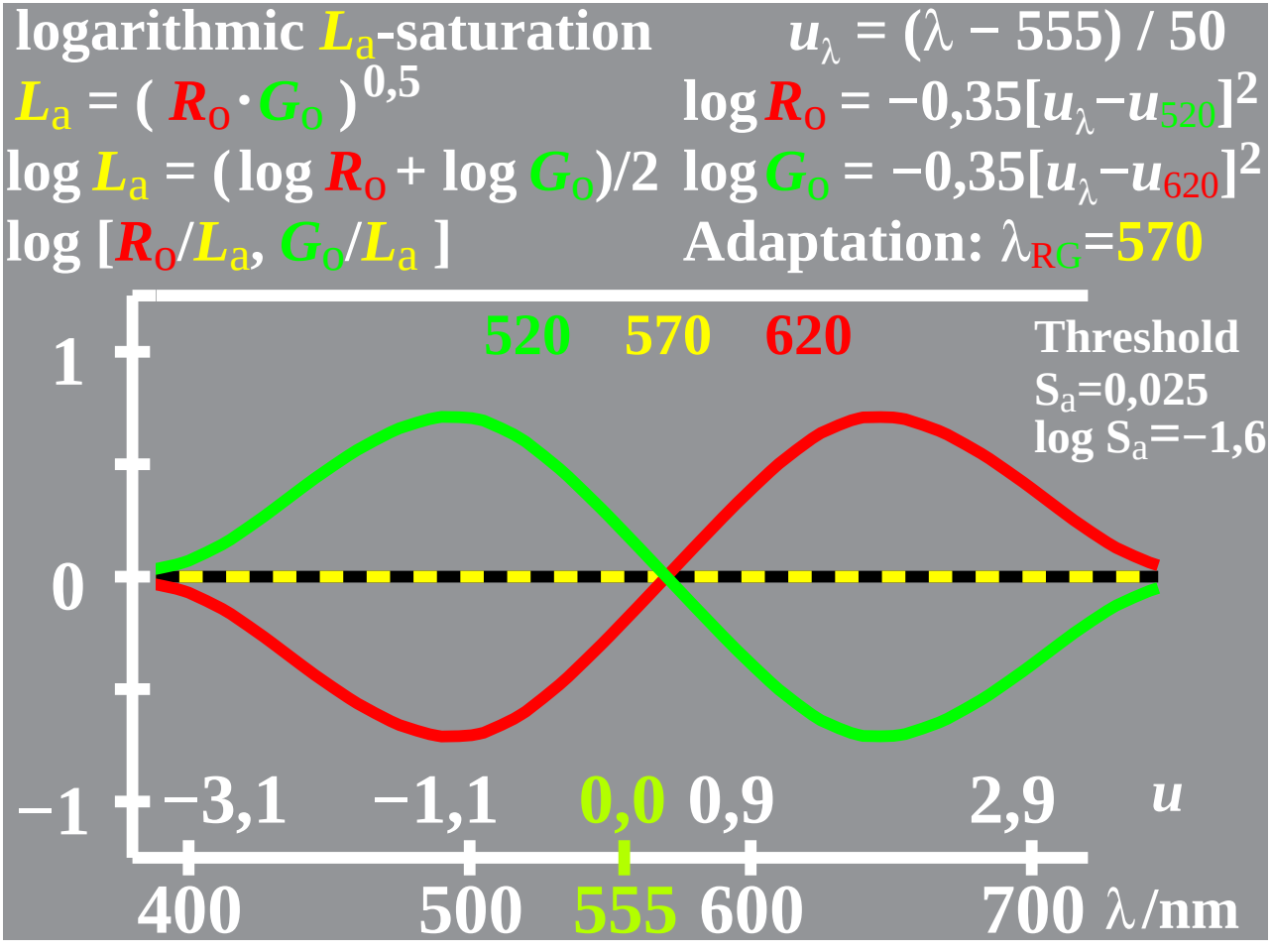

logarithmic G_a-data
$u_\lambda = (\lambda - 555) / 50$
$G_a = (L_o \cdot B_o)^{0,5}$
$\log L_o = -0{,}35[u_\lambda - u_{470}]^2$
$\log G_a = (\log L_o + \log B_o)/2$
$\log B_o = -0{,}35[u_\lambda - u_{570}]^2$
log [G_a, L_o, B_o]
Adaptation: λ_{LB}=520
470
520
570
0
−1
−2
Threshold
S_a=0,0
−3,1
−1,1
0,0
0,9
2,9
u
400
500
555
600
700
λ/nm

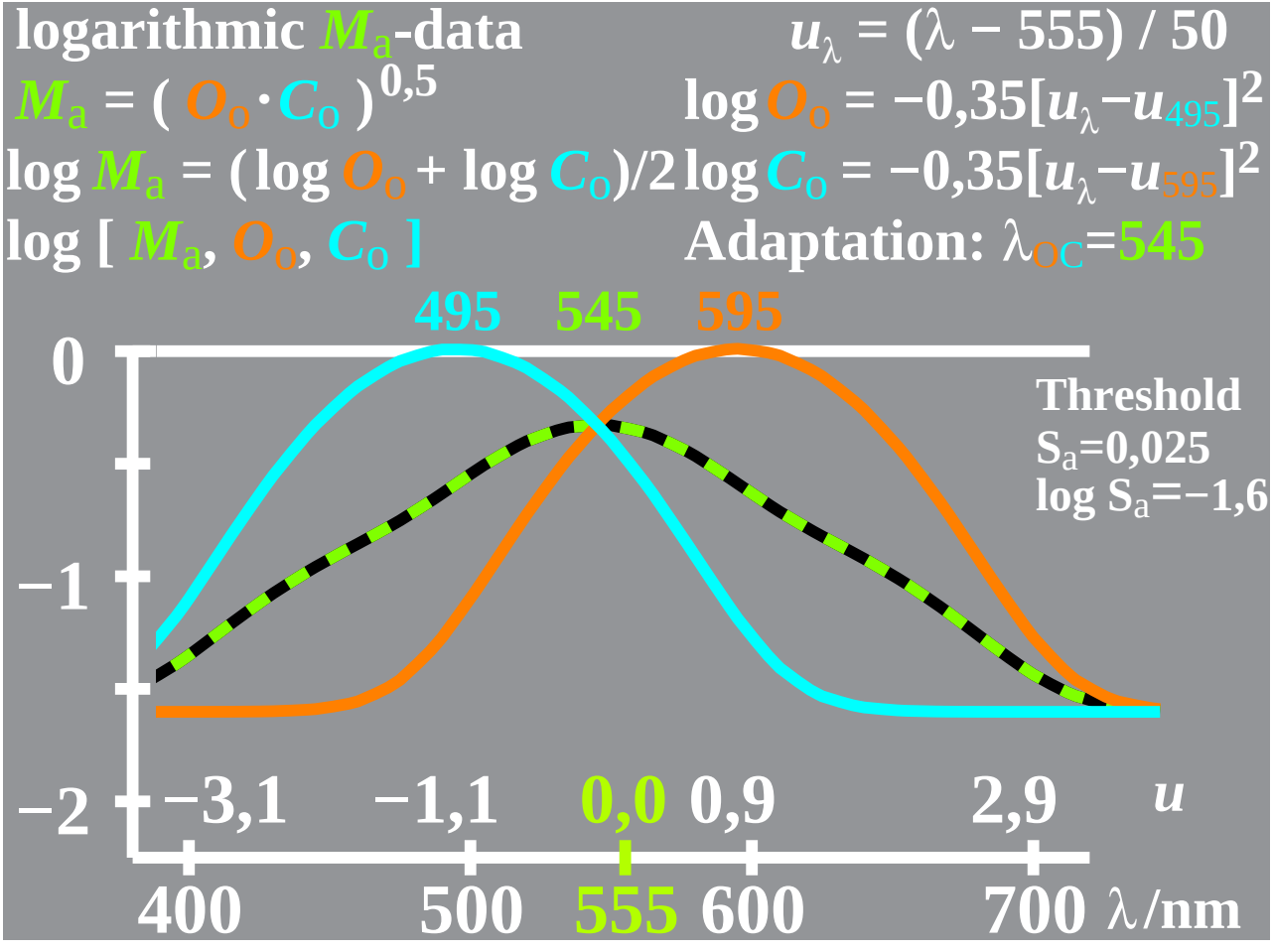

logarithmic G_a-saturation
$u_\lambda = (\lambda - 555) / 50$
$G_a = (L_o \cdot B_o)^{0,5}$
$\log L_o = -0{,}35[u_\lambda - u_{470}]^2$
$\log G_a = (\log L_o + \log B_o)/2$
$\log B_o = -0{,}35[u_\lambda - u_{570}]^2$
$\log [L_o/G_a, B_o/G_a]$
Adaptation: λ_{LB}=520
470
520
570
Threshold
S_a=0,0
1
0
−1
−3,1
−1,1
0,0
0,9
2,9
u
400
500
555
600
700
λ/nm

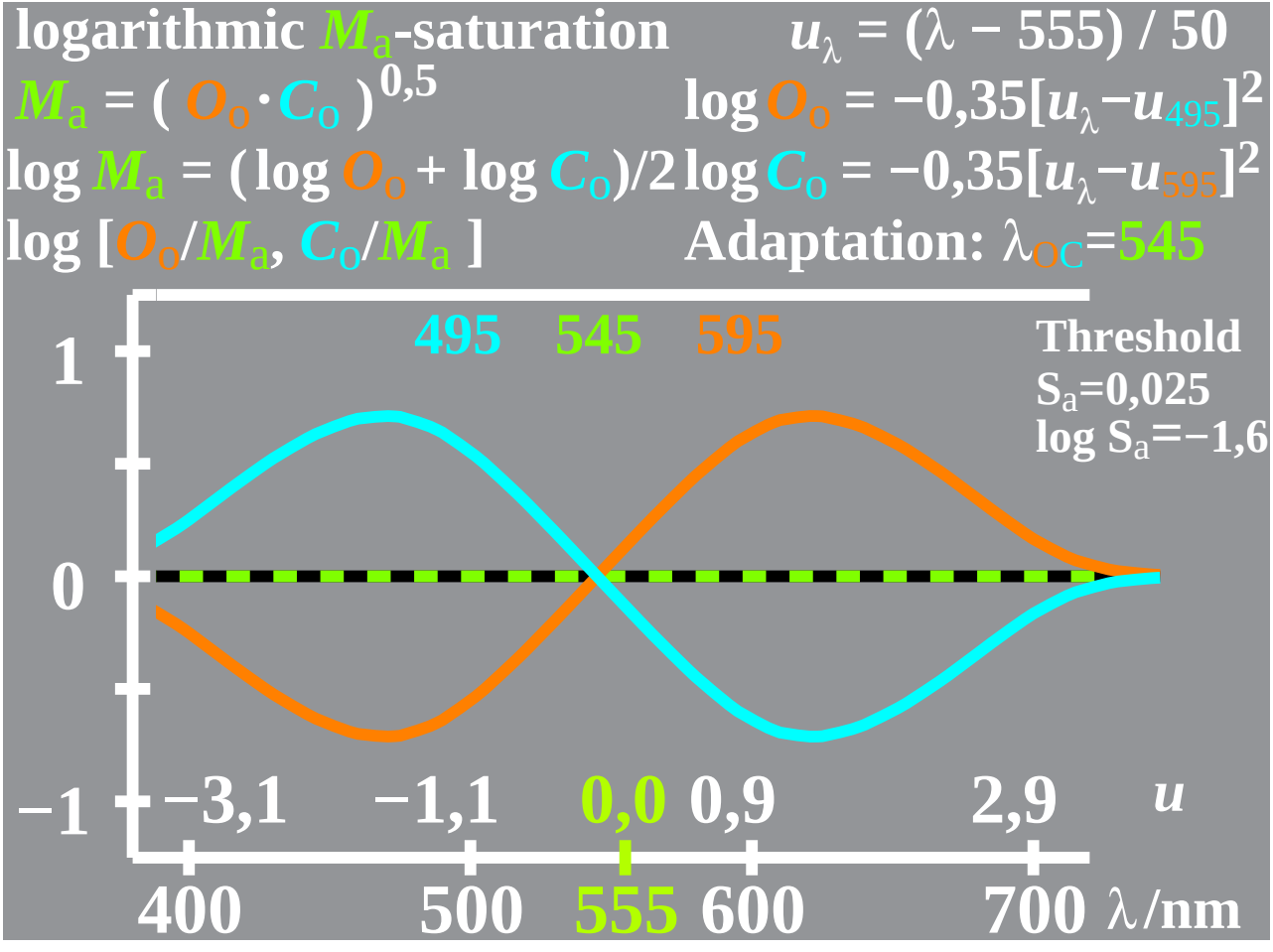

logarithmic C_a-data
$u_\lambda = (\lambda - 555) / 50$
$C_a = (M_o \cdot S_o)^{0,5}$
$\log M_o = -0{,}35[u_\lambda - u_{445}]^2$
$\log C_a = (\log M_o + \log S_o)/2$
$\log S_o = -0{,}35[u_\lambda - u_{545}]^2$
log [C_a, M_o, S_o]
Adaptation: λ_{MS}=495
445
495
545
0
−1
−2
Threshold
S_a=0,0
−3,1
−1,1
0,0
0,9
2,9
u
400
500
555
600
700
λ/nm

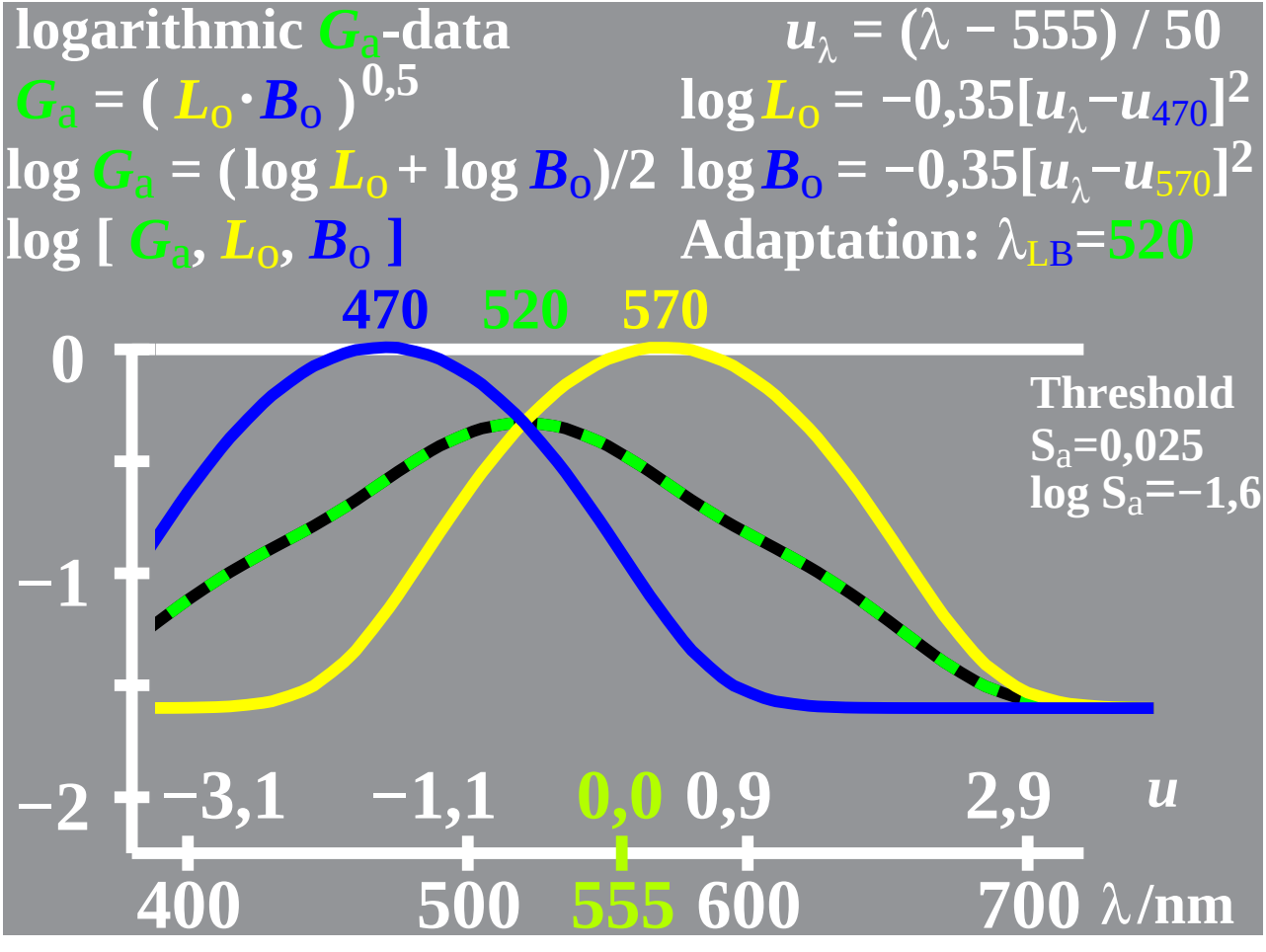

logarithmic C_a-saturation
$u_\lambda = (\lambda - 555) / 50$
$C_a = (M_o \cdot S_o)^{0,5}$
$\log M_o = -0{,}35[u_\lambda - u_{445}]^2$
$\log C_a = (\log M_o + \log S_o)/2$
$\log S_o = -0{,}35[u_\lambda - u_{545}]^2$
$\log [M_o/C_a, S_o/C_a]$
Adaptation: λ_{MS}=495
445
495
545
Threshold
S_a=0,0
1
0
−1
−3,1
−1,1
0,0
0,9
2,9
u
400
500
555
600
700
λ/nm


logarithmic L_a-data
$u_\lambda = (\lambda - 555) / 50$
$L_a = (R_o \cdot G_o)^{0,5}$
$\log R_o = -0,35[u_\lambda - u_{520}]^2$
$\log L_a = (\log R_o + \log G_o)/2$
$\log G_o = -0,35[u_\lambda - u_{620}]^2$
$\log [L_a, R_o, G_o]$
Adaptation: λ_{RG}=570
520
570
620
0
−1
−2
Threshold
S_a=0,025
$\log S_a$=−1,6
−3,1
−1,1
0,0
0,9
2,9
u
400
500
555
600
700
λ/nm


logarithmic L_a-saturation
$u_\lambda = (\lambda - 555) / 50$
$L_a = (R_o \cdot G_o)^{0,5}$
$\log R_o = -0{,}35[u_\lambda - u_{520}]^2$
$\log L_a = (\log R_o + \log G_o)/2$
$\log G_o = -0{,}35[u_\lambda - u_{620}]^2$
$\log [R_o/L_a, G_o/L_a]$
Adaptation: λ_{RG}=570
520
570
620
Threshold
S_a=0,025
$\log S_a$=−1,6
1
0
−1
−3,1
−1,1
0,0
0,9
2,9
u
400
500
555
600
700
λ/nm


logarithmic M_a-data
$u_\lambda = (\lambda - 555) / 50$
$M_a = (O_o \cdot C_o)^{0,5}$
$\log O_o = -0{,}35[u_\lambda - u_{495}]^2$
$\log M_a = (\log O_o + \log C_o)/2$
$\log C_o = -0{,}35[u_\lambda - u_{595}]^2$
$\log [M_a, O_o, C_o]$
Adaptation: λ_{OC}=545
495
545
595
0
−1
−2
Threshold
S_a=0,025
log S_a=−1,6
−3,1
−1,1
0,0
0,9
2,9
u
400
500
555
600
700
λ/nm


logarithmic M_a-saturation
$u_\lambda = (\lambda - 555) / 50$
$M_a = (O_o \cdot C_o)^{0,5}$
$\log O_o = -0{,}35[u_\lambda - u_{495}]^2$
$\log M_a = (\log O_o + \log C_o)/2$
$\log C_o = -0{,}35[u_\lambda - u_{595}]^2$
$\log [O_o/M_a, C_o/M_a]$
Adaptation: λ_{OC}=545
495
545
595
Threshold
S_a=0,025
$\log S_a$=−1,6
1
0
−1
−3,1
−1,1
0,0
0,9
2,9
u
400
500
555
600
700
λ/nm


logarithmic G_a-data
$u_\lambda = (\lambda - 555) / 50$
$G_a = (L_o \cdot B_o)^{0,5}$
$\log L_o = -0{,}35[u_\lambda - u_{470}]^2$
$\log G_a = (\log L_o + \log B_o)/2$
$\log B_o = -0{,}35[u_\lambda - u_{570}]^2$
log [G_a, L_o, B_o]
Adaptation: λ_{LB}=520
470
520
570
0
−1
−2
Threshold
S_a=0,025
log S_a=−1,6
−3,1
−1,1
0,0
0,9
2,9
u
400
500
555
600
700
λ/nm

logarithmic G_a-saturation

$G_a = (L_o \cdot B_o)^{0,5}$

$\log G_a = (\log L_o + \log B_o)/2$

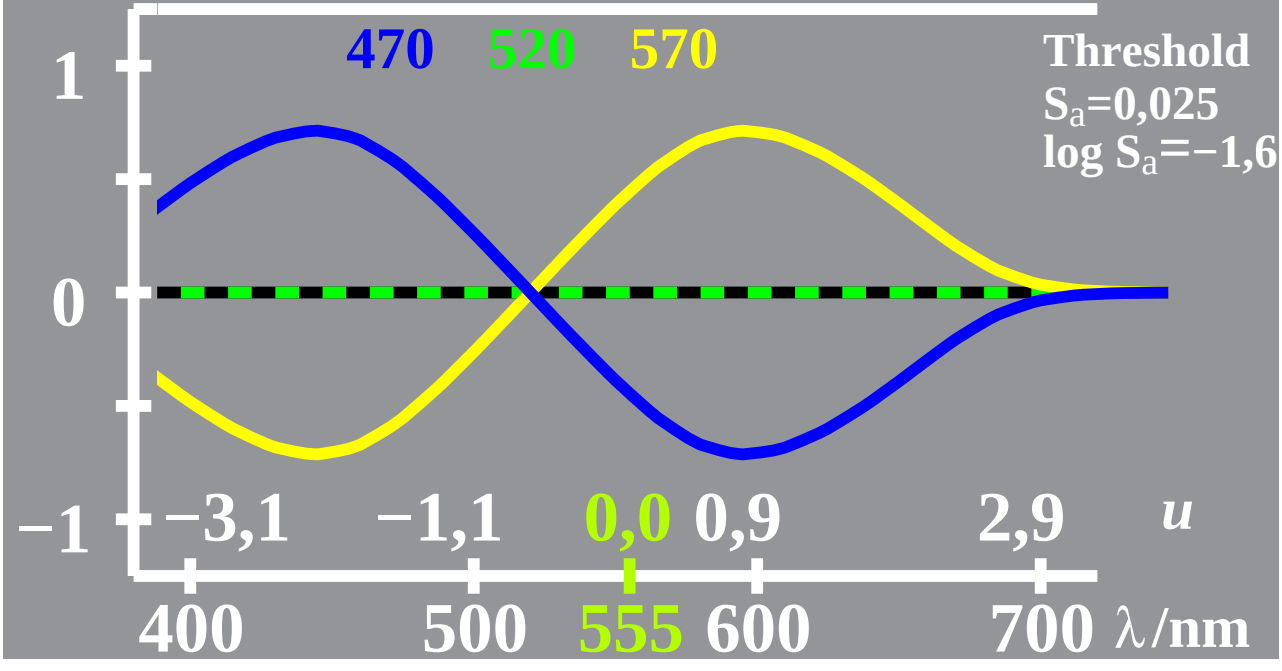
$\log [L_o/G_a, B_o/G_a]$

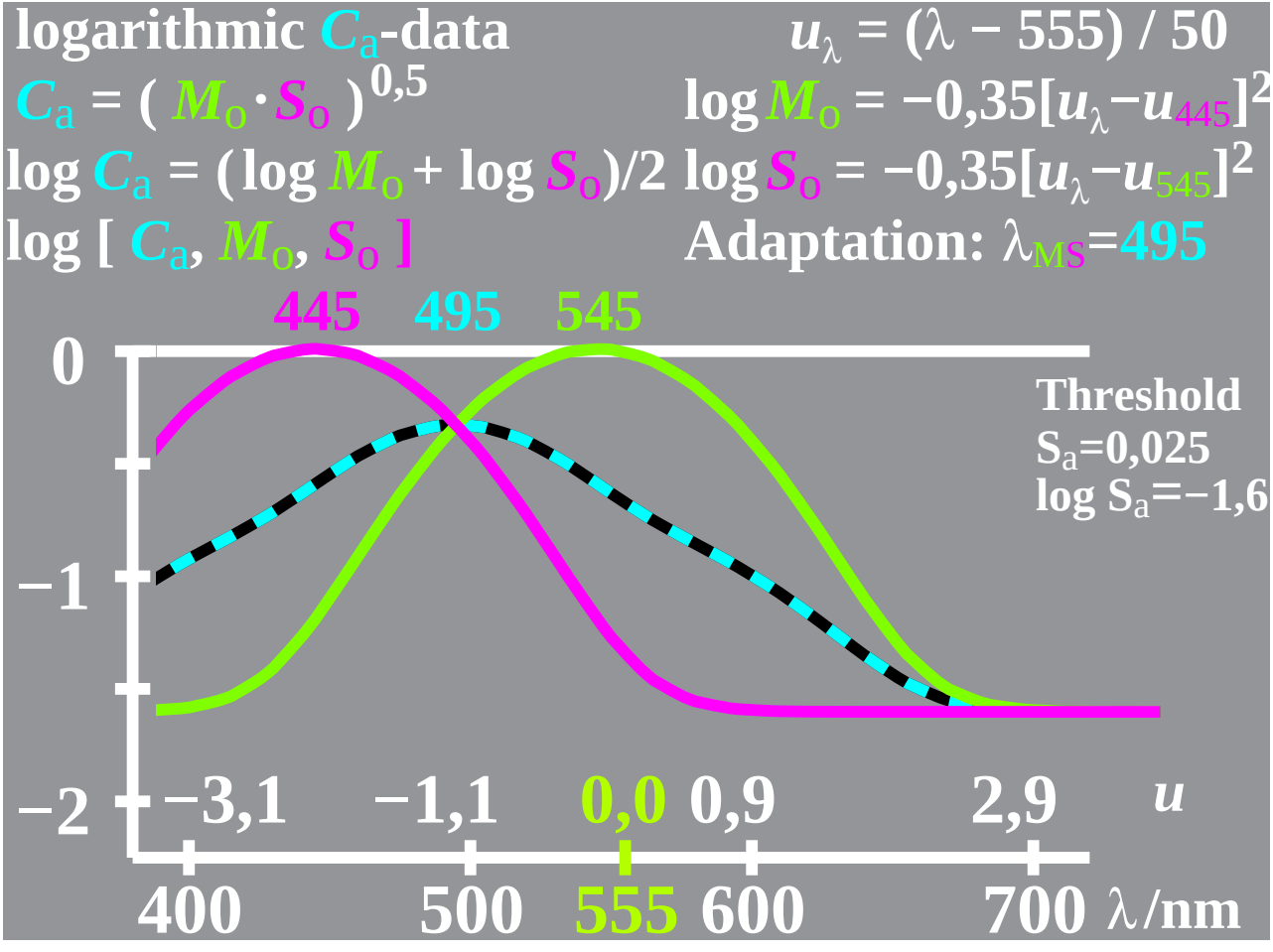
$u_\lambda = (\lambda - 555) / 50$

$\log L_o = -0{,}35[u_\lambda - u_{470}]^2$

$\log B_o = -0{,}35[u_\lambda - u_{570}]^2$

Adaptation: λ_{LB}=520




logarithmic C_a-data
$u_\lambda = (\lambda - 555) / 50$
$C_a = (M_o \cdot S_o)^{0,5}$
$\log M_o = -0,35[u_\lambda - u_{445}]^2$
$\log C_a = (\log M_o + \log S_o)/2$
$\log S_o = -0,35[u_\lambda - u_{545}]^2$
log [C_a, M_o, S_o]
Adaptation: λ_{MS}=495
445
495
545
0
−1
−2
Threshold
S_a=0,025
log S_a=−1,6
−3,1
−1,1
0,0
0,9
2,9
u
400
500
555
600
700
λ/nm

logarithmic C_a-saturation $u_\lambda = (\lambda - 555) / 50$

$C_a = (M_o \cdot S_o)^{0,5}$ $\log M_o = -0{,}35[u_\lambda - u_{445}]^2$

$\log C_a = (\log M_o + \log S_o)/2$ $\log S_o = -0{,}35[u_\lambda - u_{545}]^2$

$\log [M_o/C_a, S_o/C_a]$ Adaptation: λ_{MS}=495