Hyperbolic response function of achromatic vision space T^*_{HYP3}

nonlinear color terms	**name and relationship with test field luminance *L***	***notes***
threshold sum T^*_{HYP3}	$T^*_{HYP3} = A_1 \cdot L^t / (L^t + A_2)$; $X = L^t$ $= A_1 \cdot X / (X + A_2)$; $dX/dL = t \cdot X^{t-1}$ alternative: $A_2 = A_{2x}^t$	*T. Seim* 2014: exponent: t = 0,8 for presentation time: t_p = 0,1s of *Avramopoulos* experiments 1989 Hyperbolic function: $T^*_{max} = A_1$ $T^*_{average} = 0{,}5 \cdot A_1$ $A_{2x} = A_2^{1/t}$
CIE luminance contrast sensitivity threshold *L / dL*	$dT^*_{HYP3} / dX = A_1 \cdot A_2 / (X + A_2)^2$ $dT^*_{HYP3} / dL = dT^*_{HYP3} / dX \cdot dX / dL$ $dT^*_{HYP3} / dL = A_1 \cdot A_2 \cdot t \cdot X^{t-1} / (X + A_2)^2$ *for* dT^*_{HYP3}=1, and multiplication with L: $L / dL = A_1 \cdot A_2 \cdot t \cdot X / (X + A_2)^2$ $= A_1 \cdot A_2 \cdot t \cdot L^t / (L^t + A_2)^2$	
CIE luminance difference threshold *dL*	$dL = L \cdot (L^t + A_2)^2 / (A_1 \cdot A_2 \cdot t \cdot L^t)$ $= (L^t + A_2)^2 / (A_1 \cdot A_2 \cdot t \cdot L^{t-1})$	