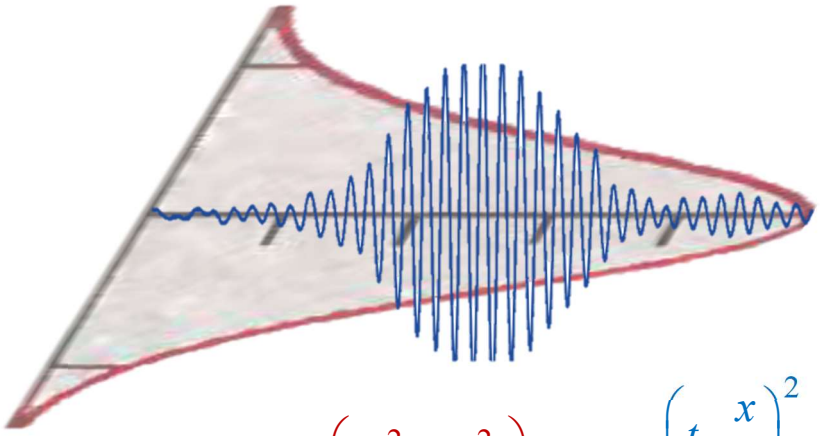
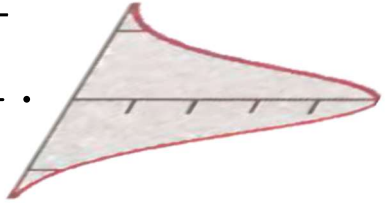
$LiNbO_3$, $LiTaO_3$, BBO 中光整流产生多周期 THz 脉冲

1. OR



$$E_z(x,y,z,t) = E_0 \cdot e^{-\left(\frac{y^2}{r_{y0}^2}+\frac{z^2}{r_{z0}^2}\right)} \times e^{-\frac{\left(t-\frac{x}{u}\right)^2}{2\tau_L^2}} \times \cos\left(\Omega_0 t - k_0 x\right)$$

$$= \sqrt{\frac{4U_0\eta_0}{\pi^{3/2} n_{\mathrm{IR}} \tau_L r_{y0} r_{z0}}} \cdot$$



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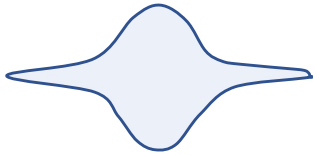

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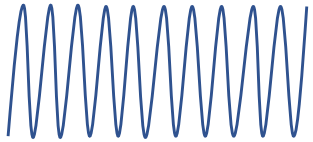

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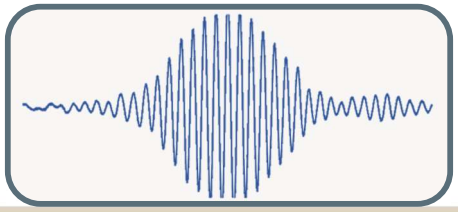

"Multicycle terahertz pulse generation by OR in $LiNbO_3$, $LiTaO_3$, and BBO crystals," **Opt. Express** 28, 21220-21235 (**2020**)