## LiNbO<sub>3</sub>, LiTaO<sub>3</sub>, BBO 中光整流产生多周期 THz 脉冲

**1. OR** 所得 THz 频谱  $I(\omega, \mathbf{r}) = \mathcal{F}_t \left[ \left| \langle \omega \rangle \right|^2 \right] (\omega) = \mathcal{I}_t \left[ \left| \langle \omega \rangle \right|^2 \right]$ 脉冲谱  $P(\omega, \mathbf{r}) = \varepsilon_0 d_{eff}(x, y) I(\omega, \mathbf{r})$ 光整流  $\mathbf{E}_{T}(\boldsymbol{\omega}, \mathbf{R}) = \frac{-\mathrm{i}\omega\mu_{0}e^{-\mathrm{i}kR}}{4\pi R} \iiint_{U} \mathbf{J}_{D}(\boldsymbol{\omega}, \mathbf{r})e^{\mathrm{i}k\cdot\mathbf{r}} d\mathbf{r}$ 大赫兹

"Multicycle terahertz pulse generation by OR in LiNbO<sub>3</sub>, LiTaO<sub>3</sub>, and BBO crystals," Opt. Express 28, 21220-21235 (2020)