```
U_NonZero_size=0.9, w0=0.1,
z0=10,
```

```
lam1=1.064, is_air_pump=0, is_ai
deff=30, is fft=1, fft mode=1,
```

```
Tx=10, Ty=10, Tz=3,
mx=1, my=0, mz=0,
```

$$\mathcal{F}\left[E_3(x,y,z)\right] \approx \frac{\chi_{\text{eff}}\omega_3^2}{c^2} \cdot \sum_{l_x,l_y,l_z=-\infty}^{+\infty} C_{l_x,l_y,l_z} \left[\frac{\mathcal{F}\left[E_1(\boldsymbol{r})E_2(\boldsymbol{r})\right]\Big|_{k_{3x}-g_x,k_{3y}-g_y} \cdot e^{ig_{l_z}z} - \mathcal{F}\left[E_{10}E_{20}\right]\Big|_{k_{3x}-g_x,k_{3y}-g_y} \cdot e^{ik_{3z}z}}{\left(\overline{k_{1z}}+\overline{k_{2z}}+g_{l_z}\right)^2 - k_{3z}^2} \right]$$

倒空间

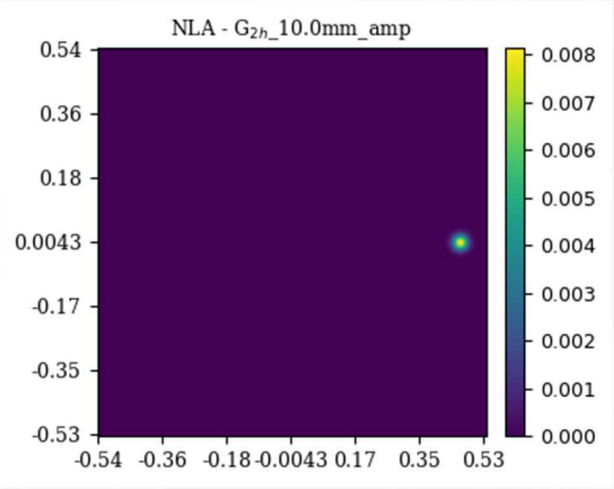
$$E_3(x,y,z) \approx \frac{\chi_{\text{eff}}\omega_3^2}{c^2} \cdot \sum_{l_x,l_y,l_z=-\infty}^{+\infty} C_{l_x,l_y,l_z} \cdot \left\{ \mathcal{F}^{-1}\left[\frac{\mathcal{F}\left[E_1(\boldsymbol{r})E_2(\boldsymbol{r})\right]\Big|_{k_{3x}-g_x,k_{3y}-g_y} \cdot e^{ig_{l_z}z}}{\left(\overline{k_{1z}}+\overline{k_{2z}}+g_{l_z}\right)^2 - k_{3z}^2} \right] - \mathcal{F}^{-1}\left[\frac{\mathcal{F}\left[E_{10}E_{20}\right]\Big|_{k_{3x}-g_x,k_{3y}-g_y} \cdot e^{ik_{3z}z}}{\left(\overline{k_{1z}}+\overline{k_{2z}}+g_{l_z}\right)^2 - k_{3z}^2} \right] \right\}$$

正空间

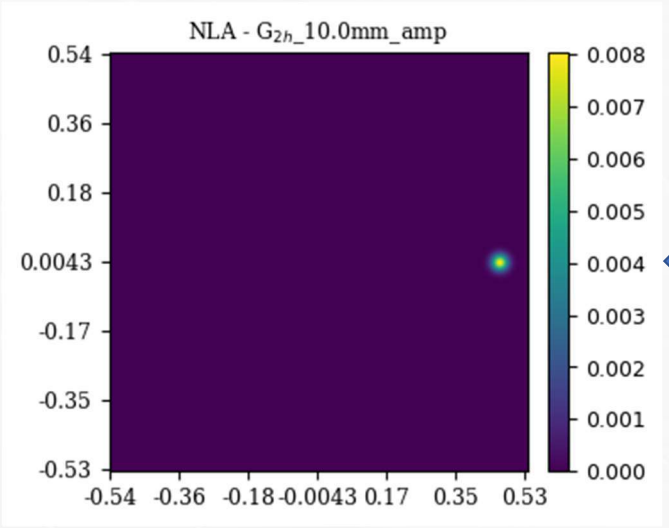
（晶体内）

正向 传播

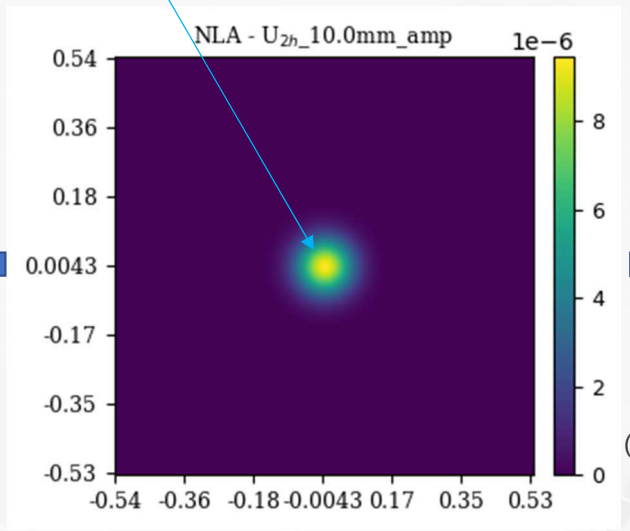
斜向 传播



斜向 远场



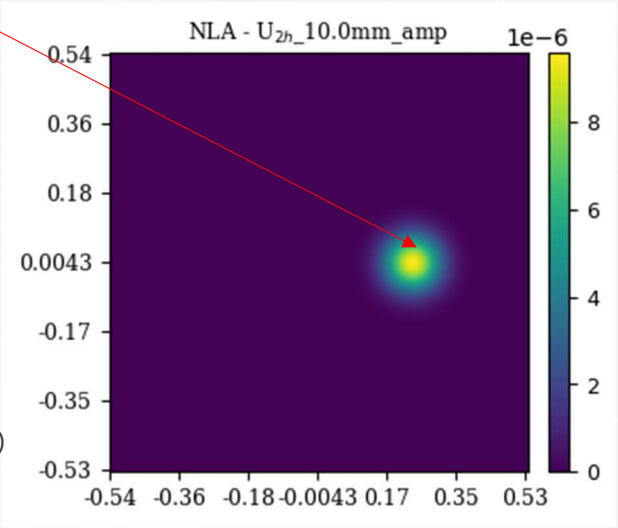
正向 远场



正向 近场

干涉

（缺级 来源）



斜向 近场