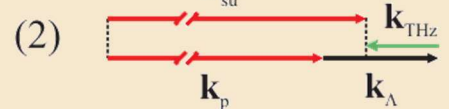
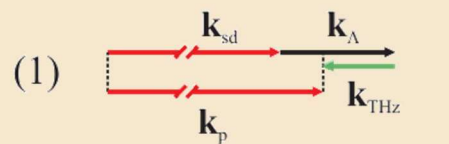


# 强非简并 SPDC 出 THz 的 相位匹配

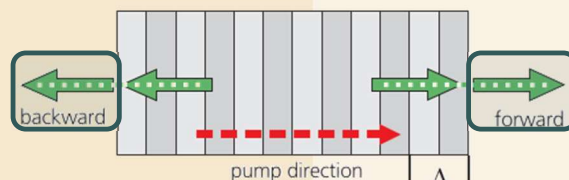
下转换 stokes

backward-generation

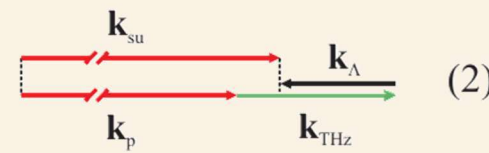
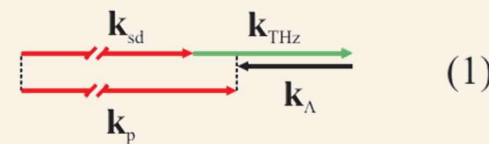


上转换 反stokes

后向 - THz

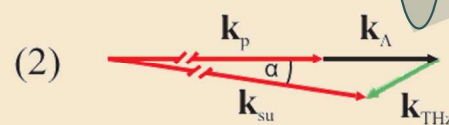
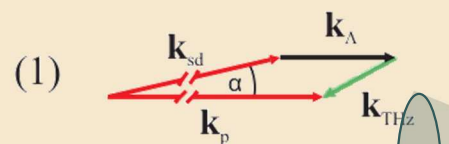


forward-generation



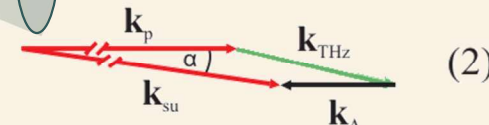
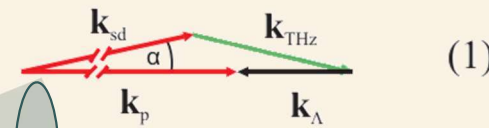
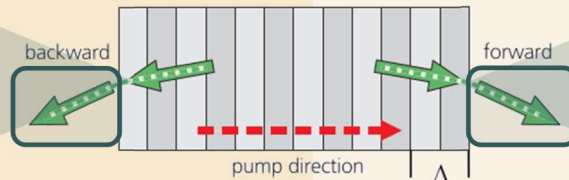
共线

下转换 stokes



上转换 反stokes

前向 - THz



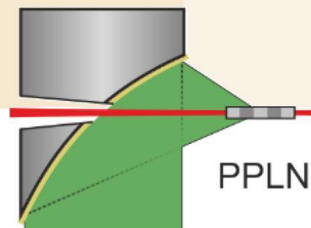
非共线

下转换 stokes

$$\omega_p = \omega_s + \omega_{THz}$$

上转换 反stokes

$$\omega_p + \omega_{THz} = \omega_s$$



$$\begin{aligned} \textcircled{k_p} &= k_s + k_{THz} - \textcircled{k_\Lambda} + \Delta k \\ k_p + k_{THz} &= k_s - k_\Lambda + \Delta k \end{aligned}$$