



$(P^u \ P^\perp)$
 $\begin{pmatrix} u & t \\ t & u \end{pmatrix}$
 P^u
 P^\perp

$\vec{D} = \epsilon_0 \vec{E} + \vec{P}$
 $\vec{D} = \epsilon_0 \vec{E} + \epsilon_0 \chi \vec{E}$
 $\vec{D} = \epsilon_0 \epsilon_r \vec{E}$
 $\epsilon_r = 1 + \chi$

$$I(\omega) \propto \sum_{v,\epsilon} |\langle \psi_v | \mathbf{r} | \psi_0 \rangle|^2$$

$t, \dots, S P_z P S_z$
 t, \dots, R
 (\dots)
 u, \dots, V
 $S P_z P S_z$
 t, \dots, t
 (\dots)
 $S P_z V$
 $H u, t, t$
 $P P_z (\dots), u$
 t

$t, \dots, S S_z P P_z$
 $t, \dots, S P_z P S_z$
 u, \dots, t
 t