

$$\overrightarrow{D}_a = \epsilon_0 \overrightarrow{E} + \overrightarrow{P} + \overrightarrow{P}_a \qquad \overrightarrow{P}_a = -g_{a\gamma\gamma} \sqrt{\frac{\epsilon_0}{\mu_0}} (a \overrightarrow{B})$$