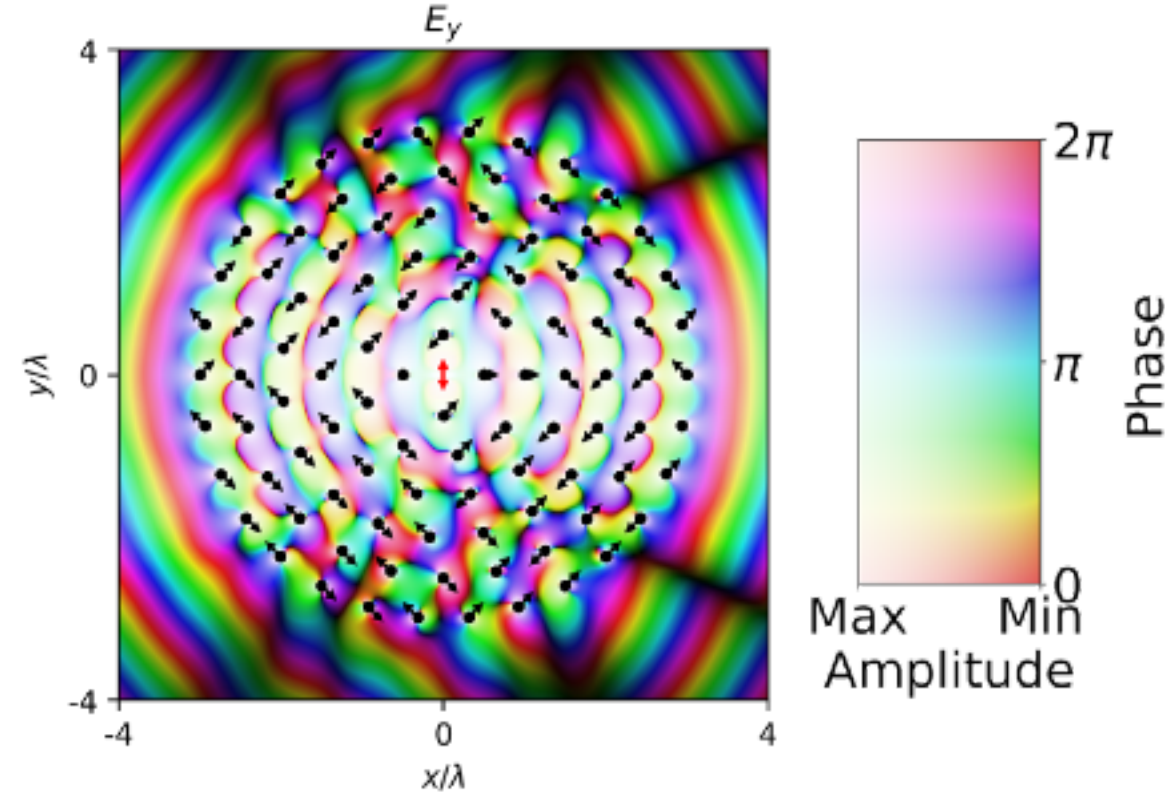
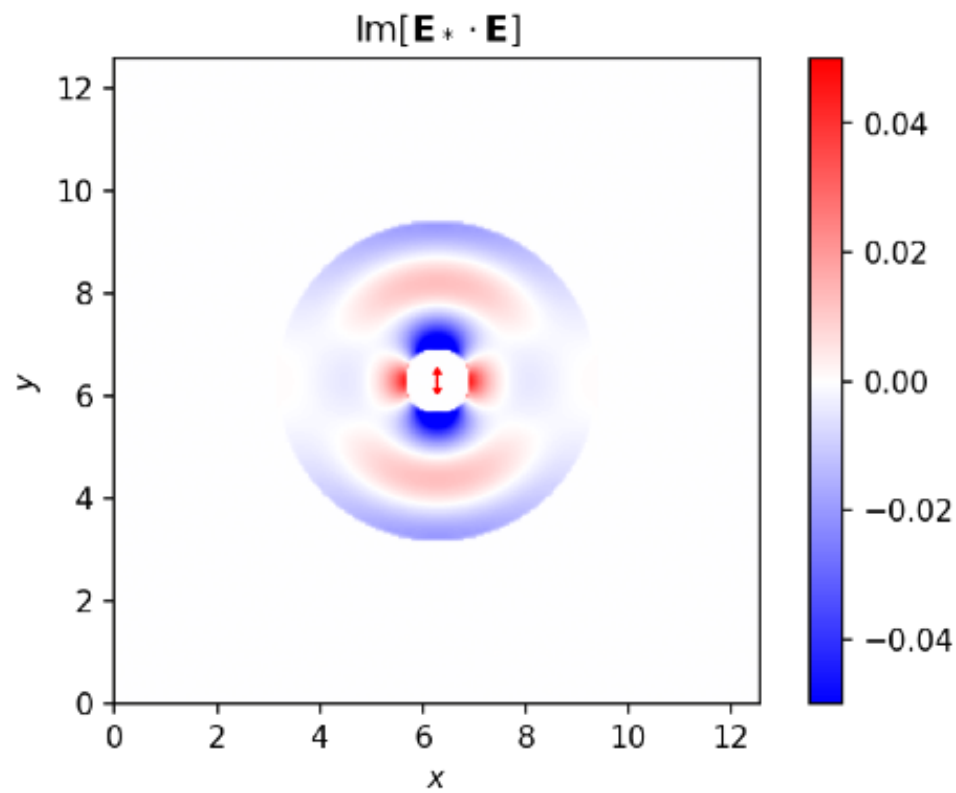


Continuous \rightarrow Discrete

$$\delta P = \text{Im} [\mathbf{E}_*(\mathbf{r}) \cdot \mathbf{E}(\mathbf{r})] \delta \epsilon$$

$$\delta P = \text{Im} \left\{ \mathbf{p}^* \cdot \left[\xi^2 \mathbf{G}(\mathbf{r}, \mathbf{r}_n) \alpha_E \nabla \mathbf{E}(\mathbf{r}_n) + i \xi \nabla \times \mathbf{G}(\mathbf{r}, \mathbf{r}_n) \alpha_H \nabla \mathbf{H}(\mathbf{r}_n) \right] \right\} \delta \mathbf{r}_n$$



Optimising Power Emission

$$\delta P = \text{Im} \left\{ \mathbf{p}^* \cdot \left[\xi^2 \vec{\mathbf{G}}(\mathbf{r}', \mathbf{r}_n) \alpha_E \nabla \mathbf{E}(\mathbf{r}_n) + i \xi \nabla \times \vec{\mathbf{G}}(\mathbf{r}', \mathbf{r}_n) \alpha_H \nabla \mathbf{H}(\mathbf{r}_n) \right] \right\} \delta \mathbf{r}_n$$

