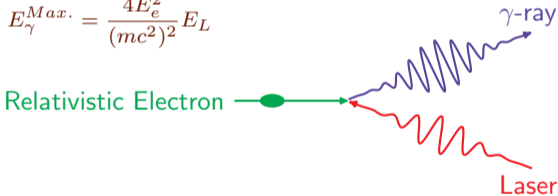


Laser Compton Scattering

- Energy tunable γ -ray source. Electron and laser energies control γ -ray energy.
- Quasimonochromatic bandwidth $\Delta E/E \approx 1\%$.
- Polarized γ -rays can be produced.

$$E_{\gamma}^{Max.} = \frac{4E_e^2}{(mc^2)^2} E_L$$



- T. Akagi et al., Phys. Rev. Accel. Beams, 19, 114701, 2016.
- H.R. Weller et al., Prog. Part. Nucl. Phys., 62, 257-303, 2009.
- ELI- Extreme Light Infrastructure Whitebook.