

Photon Sources

- Continuous spectra of EM radiation is emitted when relativistic electrons are in a curved path in a magnetic field
 - Relativistic velocity changes observed frequency due to Doppler effect
 - * Lorentz factor (γ)
 - ✂ Time contraction also increase frequency by γ
 - Forward directed radiation
- can choose wavelength of photons
- useful for determining structure
 - IP, PES, EXAFS, XANES
- Solid state physics
- Reaction mechanisms
- Perform many experiments simultaneously

$$\gamma = \frac{1}{\sqrt{1-\beta^2}} = \frac{dt}{d\tau}$$



Radiation From Relativistic Electrons

Annelies Wilder-Smith



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