

# 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 ( $\gamma$ )
      - ✂ Time contraction also increase frequency by  $\gamma$
    - 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

**Stanford University. Microwave  
Laboratory**



## **Radiation From Relativistic Electrons:**

**Radiation from Relativistic Electrons** A.A. Sokolov, I.M. Ternov, 1986      **Novel Radiation Sources Using Relativistic Electrons: From Infrared To X-rays** Xavier Artru, Pierre Dhez, Peter Rullhusen, 1998-04-15 The purpose of this book is to give a description of the state of the art in theoretical and experimental work achieved in radiation source development It summarizes clearly and comprehensibly the basic physical aspects needed to understand the phenomena and also provides the interested reader with sufficient literature to be able to follow the development in more detail In addition it contains a unified view of most theoretical effects and their common properties The most recent developments as well as references to further work can be found in this volume In many cases review articles and textbooks published in specialized areas are also incorporated into the text      **Radiation from Relativistic Electrons, Monthly Letter Report** ,1957  
*Radiation from Relativistic Electrons, Monthly Letter Report* Stanford University. Microwave Laboratory, K. B. Mallory, 1957      **Radiation from Relativistic Electrons, Monthly Letter Report** Stanford University. Microwave Laboratory, K. B. Mallory, 1956      Radiation from Relativistic Electrons, Fourteenth Quarterly Progress Report Stanford University. Microwave Laboratory, 1959      *Radiation from Relativistic Electrons, Monthly Letter Report* Stanford University. Microwave Laboratory, K. B. Mallory, 1957      Radiation from Relativistic Electrons, Monthly Letter Stanford University. Microwave Laboratory, K. B. Mallory, 1957      *Radiation from Relativistic Electrons, Sixth Quarterly Progress Report* Stanford University. Microwave Laboratory, 1957      **Radiation from Relativistic Electrons, Final Report** Stanford University. Microwave Laboratory, 1960      Radiation from Relativistic Electrons, Ninth Quarterly Progress Report Stanford University. Microwave Laboratory, 1958      *Radiation from Relativistic Electrons, Second Quarterly Progress Report* Stanford University. Microwave Laboratory, 1956      Radiation from Relativistic Electrons, Thirteenth Quarterly Progress Report Stanford University. Microwave Laboratory, 1959      *Radiation from Relativistic Electrons, Seventh Quarterly Progress Report* Stanford University. Microwave Laboratory, 1958      **New Sources of Coherent Radiation by Relativistic Electrons** Chi Keng Chen, 1985      Radiation from Relativistic Electrons, Eleventh Quarterly Progress Report Stanford University. Microwave Laboratory, 1959      Radiation from Relativistic Electrons, Fifth Quarterly Progress Report Stanford University. Microwave Laboratory, 1957      **Radiation from Relativistic Electrons, Fourth Quarterly Progress Report** Stanford University. Microwave Laboratory, 1957      *Radiation of Relativistic Electrons in Periodic Structures* Ju L. Pivovarov, A. P. Potylitsin, 1997-01-01 The Symposium was organised by the Nuclear Physics Institute Tomsk Polytechnic University and held in Tomsk Russia September 4 8 1995 Scientists from Russia and CIS countries USA Japan Germany Belgium Denmark France attended the Symposium 53 plenary and original reports were presented The aim of the Symposium was to discuss the current state of research into the fundamental and applied aspects of the radiation of relativistic electrons in natural and artificial periodical structures The importance of phenomena is illustrated by the range of

electron energies involved from a hundred MeV in X Ray visible light and RF generation experiments to hundreds of GeV in recent channelling experiments      **Radiation from Relativistic Electrons, Third Quarterly Progress Report** Stanford University. Microwave Laboratory, 1957

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