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The phase difference, between the scattered wave from a volume element around the origin and one around $\mathbf{r}$ is $-\mathbf{k} \cdot \mathbf{r}$. The resulting phase difference is thus $\Delta\phi(\mathbf{r}) = (\mathbf{k} - \mathbf{k}') \cdot \mathbf{r} = \mathbf{Q} \cdot \mathbf{r}$ where $\mathbf{Q} = \mathbf{k} - \mathbf{k}'$ (1.10) $\mathbf{Q} = \mathbf{k} - \mathbf{k}'$ is known as the

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$0 = 2.82 \times 10^{-5} \text{ \AA}$ Structure: (E field photon and e) Sensitivity to $r_0 (\hbar\omega/mc^2)$ Magnetism: (E, H field photon and e and μ_B) Neutron $0.1675 \times 10^{-27} \text{ Kg}$ $\frac{1}{2}$ $-1.913 \mu_N$ $b \sim r_0$ (Short range nuclear forces) $b_{\text{mag}} \sim r_0 (\mu_N/B)$ Resonant Scattering: 100 r_0 $r_0 = 1.4 \pi e^2$

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Elements of Modern X-ray Physics, Jens Als-Nielsen and Des McMorrow Wiley, New York, 2001. \$99.95, \$29.95 paper (318 pp.). ISBN 0-471-49857-2, ISBN 0-471-49858-0 paper Buy at Amazon. Over its 25-year life span, synchrotron radiation has left an indelible mark on physics. This "leftover" radiation, once the bane of particle accelerator designers, has been found to be far more versatile than that produced by conventional sources.

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