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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 $0.1675 \times 10^{-27} \text{ Kg}$ $\frac{1}{2} - 1.913 \mu\text{N}$ $b \sim r_0$ (Short range nuclear forces) $b_{\text{mag}} \sim r_0 (\mu_N/B)$ Resonant Scattering: $100 r_0$ $r_0 = 1/4\pi\epsilon_0 e^2$

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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

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