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References; Commentary; [[82g]] The Discrete Symmetries P, T and C; FOOTNOTES; DISCUSSION; Commentary; [[83g]] Gauge Fields, Electromagnetism and the Bohm-Aharonov Effect; 1. Josephson Junction Experiment; 2. Necessity of Single Valuedness of Wavefunctions; 3. Definition of $\int \mathbf{A} \cdot d\mathbf{x}$ When There are Gauge-Transformations; 4. Diffraction Pattern Only Depends on Total Flux; 5. Locality of Electromagnetism in the Bohm-Aharonov Experiment; 6. Weyl's Scale Change and Einstein's Objection
 7. Charge Quantization, Compactness of the Gauge Group, and Flux Quantization
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 Additional comments[[86c]] Square Root of Minus One, Complex Phases and Erwin Schrödinger; 5.1. Introduction; 5.2. Complex numbers in matrix and wave mechanics; 5.3. Complex numbers in Weyl's gauge theory; 5.4. Modern consequences; 5.5. Appendix; A letter from F. London to E. Schrödinger*; References; Commentary; [[87a]] Generalization of Sturm-Liouville Theory to a System of Ordinary Differential Equations with Dirac Type Spectrum; 1. Introduction; 2. Differential Equation and Boundary Condition; 3. Solution Set ψ Satisfying Boundary Condition at $x = 0$
 4. Properties of $\psi = -1$ and the Phase Angles θ

Sommario/riassunto

Professor Chen Ning Yang, an eminent contemporary physicist, was Professor at the Institute for Advanced Study, Princeton, New Jersey, from 1955 to 1966, and Albert Einstein Professor of Physics at the State University of New York at Stony Brook until his retirement in 1999. He has been Distinguished Professor-at-Large at the Chinese University of Hong Kong since 1986 and Professor at Tsinghua University, Beijing, since 1998. Since receiving his PhD from the University of Chicago in 1948, Prof Yang has made great impacts in both abstract theory and phenomenological analysis in modern physics.
