

International Centre for Theoretical Physics

P.A.M. Dirac Medals

Ceremony of Presentation



26 July 1988

*Strada Costiera, 11
34136 Trieste*

Dirac Medal 1987

Bruno Zumino

Professor Bruno Zumino is honoured

for having been for the last twenty years one of the leading experts in field theory. Together with Prof. Julius Wess, he has made fundamental contributions to the study of chiral anomalies in gauge theories with fermions. Also in collaboration with Prof. Wess, he proposed the first renormalizable Lagrangian field theories to realize supersymmetry in 4-dimensional space-time. With Prof. Stanley Deser he constructed one of the first supergravity theories in four dimensions. In addition to this important early work, he has been a leader in the application of modern geometrical ideas in field theory. In particular he has illuminated the role of Kähler geometry in extended supergravities and, more generally, the value of differential geometric methods in the study of anomalies.

Professor Bruno Zumino was born in Rome, Italy, on 28 April 1923. He studied at the University of Rome where he received his Doctorate in Physics and in Mathematics in 1945. He worked at New York University as a Research Associate from 1951 to 1953, and as Associate Professor and Full Professor from 1953 to 1968. He joined CERN as a Senior Researcher in 1968 and worked there until 1981 when he was appointed Professor of Physics at the University of California at Berkeley. Prof. Bruno Zumino is a Member of the National Academy of Sciences, a Fellow of the American Academy of Arts and Sciences and of the American Physical Society, and a Member of the Italian Physical Society. His field of research is particle physics and general relativity.

The other Dirac Medal 1987 was presented to Professor Bryce DeWitt (University of Texas at Austin, USA) on 30 May 1988.