

FOREWORD

Considerable progress has recently been made in understanding renormalization in field theory. There are perhaps four major areas where deeper understanding has been achieved:

- 1) Appearance of infinities and necessity of renormalization for exact solutions of field equations in two and three dimensions.
- 2) Equivalence of different methods of renormalization - the Dyson-Salam method, the Bogolubov-Parasiuk method and the method of analytic renormalization.
- 3) Renormalization of theories with non-polynomial Lagrangians - with major progress coming from the Dubna school.
- 4) Renormalization of axial-vector and other currents and of theories with broken symmetries.

The topical conference held by the International Centre for Theoretical Physics brought together about one hundred specialists. No formal Proceedings will be published but abstracts of the talks, with as complete references as possible, have been rapidly issued to mark the range of the topics covered. For copies of the papers, inquiries may be addressed direct to the authors.

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