



INTERNATIONAL CENTRE FOR THEORETICAL PHYSICS
MIRAMARE - P.O.B. 586 - 34100 TRIESTE (ITALY) - TELEPHONES: 224281/2/3/4/5/6 - CABLE: CENTRATOM

DIRECTOR
ABDUS SALAM

22nd October 1970

Dear Professor Gürsey,

In August 1972 Professor P.A.M. Dirac will be 70 years old. I do not have to say how much all of us owe to Professor Dirac and the physics he created for us. It would appear fitting that a volume commemorating his contributions to the subject may be prepared for his 70th birthday. I would deeply appreciate it if you could kindly agree to participate in the preparation of this volume.

Since Dirac's work covers nearly all of quantum mechanics I feel it may be a good idea to limit the topics to be covered to those which started with Dirac and to cover in the papers prepared for the volume a review of his work and its subsequent development in some detail. In consultation with Professor Wigner a first attempt has been made to select the topics and the possible contributors. Naturally this list will contain mistakes. I am writing to those on the accompanying list. I would hope that within the limits of mutual agreements one may be able to rectify the mistakes. I would deeply appreciate it if you could kindly agree to offer homage to Dirac in this manner, and also see if the topic suggested for you may meet with your approval.

With kindest regards,

Yours sincerely,

Abdus Salam

Professor F. Gürsey
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TOPICS

- | | | |
|-----|--|-------------------|
| 1. | Foundations of Quantum Field Theory | Jost |
| 2. | The Poisson Bracket | Lanczos |
| 3. | The Role of F.D. Statistics in Physics | Bethe |
| 4. | The Dirac Equation | Jauch |
| 5. | Positronium | Wheeler |
| 6. | Magnetic Monopole | Amaldi
Cabibbo |
| 7. | De Sitter Space in Relation to Particle Physics | Gürsey |
| 8. | The Conformal Symmetry in Relation to Particle Physics | Salam |
| 9. | Poincare Group Representations | Wigner |
| 10. | Quantization of Einstein's Gravity Theory | Schwinger |
| 11. | Sums Over Histories and Foundations of
Quantum Theory | Feynman |
| 12. | Classical Electron Theory | Pais |
| 13. | The fundamental Constants and their Time Variation | Dyson |
| 14. | δ -function | Laurent Schwartz |
| 15. | Indefinite Metric | Heisenberg |
| 16. | λ -limiting Process and Analytic Renormalization | Hepp |



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