

- CONTENTS -

Foreword	III
Contents	VII
Participants	IX
<u>Section I</u>	1
S. ALBEVERIO, R. HOEGH-KROHN - Feynman Path Integrals and the Corresponding Method of Stationary Phase	3
A.M. CHEBOTAREV, V.P. MASLOV - Processus de sauts et leurs applications dans la mécanique quantique	58
A. TRUMAN - The Polygonal Path Formulation of the Feynman Path Integral	73
<u>Section II</u>	103-104
Ph. COMBE, R. RODRIGUEZ, M. SIRUGUE-COLLIN, M. SIRUGUE - Weyl Quantization of Classical Spin Systems. Quantum Spins and Fermi Systems	105
P. KREE - Feynman Path Integral and Theory of Forms	120
<u>Section III</u>	137-138
Ph. BLANCHARD - Caractérisation de processus par la méthode des spécifications locales	139
P. COLLET - Renormalization Group Approach to the Hierarchical Model	149
D. DOHRN, F. GUERRA, P. RUGGIERO, Spinning Particles and Relativistic Particles in the Framework of Nelson's Stochastic Mechanics	165
R. GIELERAK, W. KARWOWSKI, L. STREIT - Construction of a Class of Characteristic Functionals	182
J. RAUCH, D.N. WILLIAMS - Topics on Euclidean Classical Field. Equations with Unique Vacua	189
L. STREIT - Null plane fields and automodel random processes.	203
<u>Section IV</u>	207-208
A. LICHNEROWICZ - Déformations et Quantification	209
D.J. SIMMS - Geometric Quantisation and the Feynman Integral.	220
J.M. SOURIAU - Algèbres Tierces	224
<u>Section V</u>	225-226
C. DEWITT-MORETTE - A Reasonable Method for Computing Path Integrals on Curved Spaces	227

M. M. MIZRAHI - Correspondence Rules and Path Integrals	234
J. TARSKI - Feynman-Type Integrals defined in Terms of General Cylindrical Approximations	254
<u>Section VI</u>	280-281
H. HOGREVE, R. SCHRADER, R. SEILER - Bounds on the Euclidean Functional Determinant	282
A. SLAVNOV - Application of Path Integrals to Non-Pertur- bative Study of Massive Yang-Mills Theory	289
J.MADORE, J.L.RICHARD, R.STORA , $F = *F$, a review	304
<u>Section VII</u>	335-336
R. BALIAN, G. PARISI, A. VOROS - Quartic Oscillator	337
C. ITZYKSON - Perturbation Theory at Large Orders	361
L.C. O'RAIFEARTAIGH, G. PARRAVICINI - Anomalous Behaviour of the Effective Potential	374
<u>Short Communications</u>	389-390
J. BERTRAND, M. GINOCCHIO - Non-Affine Path Algorithm in the Functional Integral Calculus of Schrödinger Kernels	391
J. BERTRAND, M. IRAC - Non-Uniqueness in writing Schrödinger Kernel as a Functional Integral	398
G. BURDET, C. MARTIN, M. PERRIN - About the Conformal Properties of Yang-Mills Fields	403
G. CURCI, R. FERRARI - Infrared Problem and Zero-Mass Limit in a Model of Non-Abelian Gauge Theory	410
H.M. FRIED - Unitary Restrictions on Semi-Classical Appro- ximations to Certain Functional Integrals	418
L. GARRIDO, M. SAN MIGUEL - On the Fokker Planck Lagrangian.	423
W. KERLER - Distribution Definition of Path Integrals	429
H. LESCHKE - Functional Integral Representations and Ine- qualities for Bose Partition Functions	435
A. ROUET - Renormalization of Yang-Mills Theory developed around an Instanton	444
Closing Address	448

