

Program and Table of Contents

Session A page

Heavy Ion Potentials and Barriers

Chairman:	M. H. Macfarlane	
Secretary:	E. Grosse	
C. B. Dover, J. P. Vary Brookhaven	Folding Potentials for the Description of Heavy Ion Elastic Scattering and Transfer Reactions.	1
C. Toepffer Johannesburg	Semimicroscopic Approach to the Imaginary Part of the Heavy Ion Optical Potential.	15
H. J. Krappe Berlin	Different Approaches for the Calculation of Fusion Barriers.	24

Session B

Quantitative Interpretation of Transfer Reactions Near the Coulomb Barrier

Chairman:	R. Vandenbosch	
Secretary:	K. D. Hildenbrand	
H. J. Körner München	Use of Semiclassical Quantities in Transfer Reactions.	39
J. D. Garrett Brookhaven	Oscillations in the Angular Distribu- tions of Heavy Ion Transfer Reactions.	59
R. Malfliet Groningen	Semiclassical Description of Elastic and Inelastic Heavy Ion Scattering.	86

Session C

Quantum Mechanical Features of Heavy Ion Reactions

Chairman:	K. Dietrich	
Secretary:	D. Pelte	
W. E. Frahn Cape Town	Wave Mechanical Aspects of Heavy Ion Collisions.	102
K. W. McVoy Madison	Surface Waves and Surface Resonances in Heavy Ion Reactions.	127
H. H. Wolter Jülich, Köln	Two-Step Processes	140

Session D

page

Discussions and Extended Statements

Chairman: A. Richter
 Secretaries: P. Braun-Munzinger and C. K. Gelbke

Session E

Heavy Ion Reactions at High Energies

Chairman: S. Kahana
 Secretary: F. Pühlhofer

B. Buck Oxford	Approaches to the Interpretation of Heavy Ion Transfer Reactions at High Energies.	152
D. K. Scott Berkeley	The Analysis of High Energy Heavy Ion Transfer Reactions.	165

Session F

Macroscopic Aspects of Heavy Ion Reactions

Chairman: R. Siemssen
 Secretary: V. Metag

D.H.E. Gross, H. Kalinowski, J.N. De Berlin	Friction Model for Heavy Ion Collisions and its Application to Heavy Ion Fusion and Deep Inelastic Reactions.	194
Yu. Ts. Oganessian Dubna	Fusion and Fission Induced by Heavy Ions.	222
V. V. Volkov Dubna	Deep Inelastic Transfer Reactions and the Formation of a Double Nuclear System.	254
M. Lefort Orsay	Critical Discussion of the Concept of Critical Angular Momentum in Heavy Ion Reactions.	275
O. Hansen Copenhagen and Los Alamos	Summary	296

List of Participants

309