## **Contents**

Organizing Committee		
Foreword		vii
I. Boson Interferome	etry — Baryon Correlations	
A. Labeyrie*	Speckle and Intensity Interferometry at Optical Wavelengths (invited paper)	2
B. Lörstad	Boson Interferometry at High Energy (invited paper)	3
J. Bartke et al.	Pion Interferometry in Interactions of <sup>16</sup> O and <sup>32</sup> S Nuclei at the CERN SPS (invited paper)	18
T. Peitzmann et al.	Bose-Einstein Correlations in the Target Fragmentation Region in 200 A GeV <sup>16</sup> O + Nucleus Collisions	34
R. Lednicky and V. L. Lyuboshitz	Final State Interaction Effect on Correlations in Narrow Particles Pairs (invited paper)	42
J. Pluta	Particle Source Parameters from $\pi\pi$ and $pp$ Correlations in Relativistic Collisions at DUBNA (invited paper)	55
J. P. Alard et al.	Proton-Proton Correlations at Small Relative Momentum in Neon and Argon Collision with Nuclei at SATURNE (invited paper)	70
F. Saint-Laurent and A. Ferragut	Exclusive Study of Light Particle Correlations in the Intermediate Energy Domain (invited paper)	82
S. Kox et al.	Source Size Measurements for Heavy Ions Collisions at Intermediate Energies from Particle	
en e	Correlations: Results and Questions (invited paper)	93

R. Ostendorf and Y. Schutz	Hard Photon Correlations in Heavy-Ion Collisions (invited paper)	108
J. Zlomanczuk et al.	Measurements of Small Angle Proton-Proton Correlations in Internal Target Experiments at Dubna Synchrophasotron	117
G. J. Kunde et al.	Proton Pictures of $^{40}$ Ar + $^{197}$ Au Reactions at E/A = 200 MeV	125
	clear Matter at Equilibrium and Out-of-Equilibrium de Theoretical Approaches	m
J. Québert et al.	Particle Interferometry for an Evaporation Process at Intermediate Energy (invited paper)	134
J. M. Alexander et al.	Particle-Particle Correlations for Both Large and Small Angle Separations: Characterizations of Composite Nuclei and Probes of Their Lifetimes (invited paper)	154
P. A. de Young et al.	Probing the Lifetime of Excited Composite Nuclei with Particle-Particle Correlations (invited paper)	169
S. Pratt and W. Bauer	Proton Correlations from Evaporating and Exploding Sources (invited paper)	183
N. Carjan, B. Erazmus and D. Ardouin	Classical Approach to Light Charged Particle Correlations (invited paper)	192
W. Dünnweber et al.	Fermionic Second-Order Interference in Compound Nuclear Neutron-Neutron Correlations	206
B. Norén et al.	Two-Neutron Correlations in 30 A MeV Heavy-Ion Interactions	217
M. Korolija et al.	Two-Proton Correlations from the $^{50}$ Ni + $^{50}$ Ni Reaction at E <sub>300</sub> = 876.5 MeV	223
J. Cugnon	Correlations in Equilibrium and Non-Equilibrium Systems (invited paper)	230

H. Feldmeier	Short Range Correlations in Fermionic Molecular Dynamics (invited paper)	248
B. Remaud, J. Randrup and M. Farine	Dynamics of Fluctuations and of Their Correlation in Fermi Systems	256
A. Giovannini*	Multiplicity Distributions and Clan Structures at High Energy Collisions (invited paper)	273
M. Charlet	Factorial Moments and Correlations in Meson-Nucleus Interactions at 250 GeV/c	274
III. Unlike Particle Co	rrelations	
J. Pochodzalla†	Temperature Measurements at Intermediate Energy Heavy-Ion Collisions (invited paper)	282
H. Dabrowski et al.	Temperature Measurements on a Thermalized Source by Particle Correlations	283
D. J. Morrissey	Temperature Measurements with Gamma-Rays and Unlike-Particle Correlations (invited paper)	298
H. Fuchs and H. Homeyer	On the Temperature Concept for Intermediate-Velocity Emission in Heavy-Ion Reactions	305
	clear Matter at Equilibrium and Out-of-Equilibrium	am
• • • • • • • • • • • • • • • • • • •	d Theoretical Approaches (continued)	
A. Polls et al.	Short Range Correlations in Nuclear Matter at Equilibrium (invited paper)	316
P. Schuck et al.	σ and ρ Meson Strength Distributions from in Medium Corrected Π-Π Correlations and the Nuclear Equation of State (invited paper)	329
G. Röpke, M. Schmidt and Th. Alm	Two-Particle Correlations in Nuclear Matter (invited paper)	339
K. Gelbke et al.	Two-Proton Correlation Functions for	355

Z. Basrak et al.	Analysis of Pre-Equilibrium Two-Particle Correlations at Large Relative Momenta	371
J. L. Laville et al.	Estimation of the Sizes of Hot Nuclear Systems from Particle-Particle Large Angle Kinematical Correlations	380
D. L'Hote et al.	$\Pi$ -P Correlations and $\Delta$ Measurements in Relativistic Heavy-Ion Collisions (invited paper)	387
G. Wolf et al.	Dilepton Production in Heavy-Ion Collisions (invited paper)	406
IV. Contributed Papers	Not Selected for Oral Presentation	
P. Désesquelles et al.	Detecting Equilibrium Prior to Multifragmentation Using Mass or Charge Partition Probabilities	422
M. Erdmann	Measurements of Coloured Lifetimes	427
J. Galazka-Friedman <i>et al.</i>	Proton-Proton and Deuteron-Deuteron Correlations in Interactions of Relativistic Helium Nuclei with Protons	429
A. Giorni et al.	Azimuthal Angle Correlations for Alpha Particle Emission in the Reaction 40Ar + 22Cu at 25 MeV/Nucleon	437
D. Goujdami et al.	Lifetime Effects of an Evaporative Source via Two-Proton Correlations	442
Round-Table Discussion		453
R. M. Weiner	Remarks on Bose-Einstein Correlations (BEC)	459
J. Bartke	Systematics of Source Sizes from Particle Interferometry	461
	」 「TTTT T ■ Character in Land 1	701

CORINNE for Poetry	469
List of Participants	46

xiii

<sup>†</sup> Manuscript not received.

\* These talks were considered as informative seminars and the written version does not exist.