

CONTENTS

Preface.....	v
Conference Photo.....	ix

Introduction

Atomic Cluster Science: Introductory Notes <i>A.V. Solov'yov, J.-P. Connerade and W. Greiner</i>	3
---	---

I Structure and Properties of Atomic Clusters

Confined Atoms in Bubbles, Clusters, Fullerenes, Quantum Dots and Solids <i>J.-P. Connerade and P. Kengkan</i>	21
Simulation of Melting and Ionization Potential of Metal Clusters <i>M. Manninen, K. Manninen and A. Rytkönen</i>	33
New Approach to Density Functional Theory and Description of Spectra of Finite Electron Systems <i>M.Ya. Amusia, A.Z. Msezane and V.R. Shaginyan</i>	41
<i>Ab Initio</i> Calculations and Modelling of Atomic Cluster Structure <i>I.A. Solov'yov, A. Lyalin, A.V. Solov'yov and W. Greiner</i>	51
Electric and Magnetic Orbital Modes in Spherical and Deformed Metal Clusters <i>V.O. Nesterenko, W. Kleinig and P.-G. Reinhard</i>	67
Geometric Structure and Dynamics of Mixed Clusters and Biomolecules <i>M. Broyer, R. Antoine, I. Compagnon, D. Rayane and P. Dugourd</i>	77

