

TABLE OF CONTENTS

Introduction	v
Organization	ix
List of participants	xi
SCHOOL	
A high brightness electron accelerator and its particle beam physics experimental program C. Pellegrini	1
Emittance growth in laser-driven rf electron guns K.-J. Kim	25
One-dimensional theory of a free-electron laser amplifier: Steady-state and superradiance R. Bonifacio, F. Casagrande, G. Cerchioni, L. De Salvo Souza and P. Pierini	35
Selected topics in FELs E.T. Scharlemann	95
High gradient accelerators for linear light sources W.A. Barletta	127
WORKSHOP	
Linear collider regimes U. Amaldi	171
The CLC project and the design for an e^+e^- collider S. van der Meer	185
Plasma assisted inverse free electron laser J.L. Bobin	197

Radiation from fine, intense, self-focussed beams at high energy W.A. Barletta and A.M. Sessler	211
The ELFA project: Guidelines for a high-gain FEL with short electron bunches R. Bonifacio, I. Boscolo, F. Casagrande, G. Cerchioni, R. Corsini, L. De Salvo Souza, D. Fadini, M. Ferrario, C. Maroli, P. Pierini and N. Piovella	221
POSTERS	
Tapering and self-tapering in a free electron laser amplifier R. Bonifacio, F. Casagrande, M. Ferrario, P. Pierini and N. Piovella	227
Bistability in free electron lasers R. Bonifacio, F. Castelli and L. De Salvo Souza	243
Slippage and superradiance in a high-gain FEL: Linear theory R. Bonifacio, C. Maroli and N. Piovella	259
Three-dimensional effects by beat wave excitation in magnetoactive plasmas F. Esposito, R. Fedele, G. Miano and V.G. Vaccaro	275
Propagation of a short rf pulse train in an iris-loaded waveguide L. Ferrucci, C. Pagani and L. Serafini	283
Numerical integration of transient particle and field equations in axi-symmetrical cavities L. Serafini, C. Pagani, L. Ferrucci, L. Muda and A. Peretti	293
Author index	307
Subject index	309