EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH

CERN/LEP-01/89-01

LIST OF LEP REPORTS PUBLISHED
FROM JANUARY 1988 TO DECEMBER 1988

Geneva, January 1989
List of LEP Reports Published from January 1987 to December 1987.

**BEAMPARAM**


A Cavity Beat-wave Transformer for Electron Acceleration.


Stability of Particle Orbits.

Some Thoughts on Linear Collider Alignment and Mechanical Stability.

Gas Desorption and Surface Conditioning of a Synchrotron Radiation Source.

Vacuum Conditioning of the LEP Radiofrequency Cavity Units.

The Bonding of Lead Shielding on to the Aluminium Vacuum Chambers of the LEP Machine.

Field Emission Studies on Technical Niobium Surfaces.

Studies of Fast Wire Scanners for LEP.

The Transverse Polarimeter for LEP.
Development of Composite Tubes for Experimental Vacuum Chambers of Colliders.

The LEP Project.


Realization of the LEP Power Converters.

Synchrotron Radiation Induced Neutral Gas Desorption from Samples of Vacuum Chambers.

Logistics of LEP Installation.

Analytic Calculation of the Dynamical Aperture for the Two Dimensional Betatron Motion in Storage Rings.

Optics Effects and Options for TeV Colliders - II*.

The \( \tau \)-Charm Factory Storage Ring.

Analytic Theory of Synchro-Betatron Resonances.

Optics Perturbations due to Discontinuous Replacement of Radiated Energy.

Exhaustive Search of Field Defect Compensation and Reading Errors in A.G. Machines.
Addition of a Beam-beam Element to MAD. LEP Simulation Results.

Polarization Simulation Studies for LEP.

Architecture of the LEP Application Software.

Optics and Performance of LEP 200.

Linear Collider Studies in Europe.

Coupling Impedances of a Set of Resonators.

Nonlinear Dynamics.

Emittance Growth Induced by Radiation Fluctuations in the Final Focus of a Linear Collider.

Beam Response Measurements at SPEAR.

Preparation of Niobium Coated Copper Superconducting RF Cavities for the Large Electron Positron Collider.

Beam Diagnostic Techniques, Observations and Comparison with Theory.

Control Facilities for Commissioning and Operation of the Water Cooling, Air Handling and Fire Detection of LEP.
The MAD Program (Methodical Accelerator Design) Version 7.2 User's Reference Manual

Longitudinal Coupling Impedance for Several Small Pillboxes.

Numeric Simulation of Thyristor Power Converters Taking into Consideration the Firing-Circuits and the Closed-Loop Control.

Common-Mode Rejection in Resonant Microwave Position Monitors for Linear Colliders.

Design, Test and Performance of the Liquid Helium Cryostats for the LEP Superconducting Quadrupole Magnets.

Controlled Downward Transfer of Saturated Liquid Helium Across Large Differences in Elevation.

Conceptual Study of the Superfluid Helium Cryogenic System for the CERN Large Hadron Collider (LHC).

Q-Monitoring in LEP.

Polarized Beams in LEP.

Systematic Integer Spin Resonances.

The Study of a CERN Linear Collider (CLIC)
Transport and Acceleration of Low-Emittance Electron Beams.

Design and Fabrication Studies of High Gradient Accelerating Structures for the CERN Linear Collider (CLIC).

Improved Impedance Models for High-Energy Accelerators and Storage Rings.

Estimates of Particle Backgrounds at the LEP Detectors.

Damage of Oxide Layers on an Al-Alloy by Electron Bombardment.

Search Coil Measurements of Particle Accelerator Magnets.

An Energy Recuperation Scheme for a Two-Beam Accelerator.

Beyond Gaussian Approximation for Beam-Beam Interaction - An Attempt.

Analytic Theory of the Coupled Synchro-Betatron Motion in (Electron) Storage Rings.

Comparison of Tracking Methods with Exact Solutions of Non-Linear Equations.

The Drive Linac for a Two-Stage RF Linear Collider.

Cryogenic Systems.