

LIST OF FIGURES

Figures		Following page no.
Fig.1.	General Lay-out of the Spectrograph	28
Fig.2.	Cross-sectional view of a pole-piece of the magnet	31
Fig.3.	Variation of the magnetic field and the factor $F(= \frac{I}{B} \frac{\partial B}{\partial I})$ with current	32
Fig.4.	Construction of GM-counters	33
Fig.5.	Trigger circuit	34
Fig.6.	Schematic arrangement of the Marx-generator	35
Fig.7.	Needle-electrode spark gap	36
Fig.8.	Improved design of spark gap	36
Fig.9.	Spark chamber	38
Fig.10	Fiducials	39
Fig.11	Block diagram of the camera-driving and Fiducials illuminating circuit	39
Fig.12	Deflection spectrum for 'Zero-field' events	45
Fig.13	Deflection distribution of some events with the magnetic field	49
Fig.14	Relative Acceptance-area distribution (Simulated)	49
Fig.15	Deflection distribution of $\Delta C$	52
Fig.16	Distribution of the bias-effects (Simulated)	53
Fig.17	Survival Probability curves for vertically incident muons of different momenta	67
Fig.18	Relative contribution of atmospheric depths to the production of muons at ground-level	67
Fig.19	Muon momentum spectrum obtained by the present spectrograph	73
Fig.20	Comparison of the present spectrum with the results of other workers	73
Fig.21	Charge-ratio of muons measured by the present spectrograph	73