



CM-P00063850

20 September, 1962

SUMMARY OF THE DISCUSSION AT THE
MEETING OF THE ELECTRONIC EXPERIMENTS COMMITTEE

ON 19 September, 1962

Present:-

P. PREISWERK
J.M. CASSELS
C. RUBBIA
A.M. WETHERELL
L. DICK

Chairman of E.E.C.

The Electronic Experiments Committee met on 19 September, 1962, to discuss the status and the future programme of experiments at the SC.

Utilization of the SC June-September 1962

A note by L. Dick on the use of the SC during June-September 1962 was presented and is attached to this report.

The position of the various SC experiments performed was discussed and a summary is given.

An extension of 6 weeks' running time was recommended for the $\pi^+ - \pi^0$ decay experiment. The equipment will remain unchanged and better statistical accuracy on both $\pi^+ - \pi^0$ and on the pion radiative beta decay will be obtained.

Five weeks of parallel time for the e^+ polarisation experiment was recommended also.

Letters of Intention and Proposals

A number of Letters and Proposals was discussed and a summary is attached.

Analysis of Spark Chamber Pictures

The situation in the NP division with respect to the analysis of spark chamber photographs was briefly discussed. With the influx of $\sim 10^5$ pictures from the PS diboson experiment S2 and the expectation of the same order from the π -p elastic scattering experiment S1, it is clear that the available facilities are rapidly becoming overloaded. A general discussion of the whole picture analysis problem should be forthcoming from Hine's study group.

A possible and untapped source of effort might be available from universities. Participation by university personnel in the data taking stage would be essential.

19 September, 1962

M E M O R A N D U M

To : Professor P. Preiswerk
 From : L. Dick
 Re : Number of shifts SC Machine June-20 September, 1962

<u>Users</u>	<u>Shifts</u>
Heintze-Rubbia $\pi^0 + e^+$	50
Dick e^+ - helicity	60
Rubbia μ -capture	40
Farley μ^+ -lifetime	30
Zichichi-Muller-Strasbourg μ^+ -pol. in solid	20
Health Physics (Baarli-Barbier) dosimetry + shielding	25
Zavattini (Spark Chamb. test)	3
Charpak (Spark gadget)	10
Lundby (\check{C} test)	2
Citron (Electronic test)	3
Backenstoss (Spark Chamb. test)	3
Orsay (Nuclear Chemistry)	2
Technical development	3 per week
Nuclear chemistry	$\frac{1}{2}$ per week

Shut down during this period 5 weeks:

2 weeks to clean the tank and to change some parts
 of the stub condensor

3 weeks for technical installation.

L. Dick

STATUS OF ELECTRONICS EXPERIMENTS AT THE SC, JUNE - SEPTEMBER, 1962

Name	Experiment	Number of shifts June-Sept.	Status	Additional time recommended
1) Rubbia	a) μ -capture in hydrogen	0	92,000 pictures measured 80,000 left to measure	
	b) lifetime of μ -p system	30	finished	
2) Farley	μ lifetime at rest	30	data analysis	
3) Heintze	Search for $\pi^+ - \pi^0$ decay	50	first results published	6 weeks
4) Dick	e^+ polarisation	60	modification of detection technique studied	5 weeks in parallel w. Heintze
5) Rubbia	μ^- capture in He^3	-	equipment being prepared	
6) Strasbourg	μ polarisation in solids	20	finished	

(a) Letters of Intention

		<u>Status</u>
1) Charpak	μ -capture in C^{12}	Cancelled for the time being
2) M. Fidecaro and Zavattini	Neutrino experiment	"
3) Heer	p-p scattering	Definite proposal by January 1963
4) Sens	$p+d \rightarrow ABC + He^3$	Definite proposal invited
5) Rubbia and Zavattini	$\pi^- + p \rightarrow ABC + n$	Definite proposal invited

(b) Proposals

1) Heymann	$p + p \rightarrow p + p + \pi^0$	Technique under discussion
2) Newth	$\mu \rightarrow 3 e$	Test recommended
3) Conversi	radiative μ^- capture	Test recommended
4) Rubbia	μ capture in hydrogen	No effort on analysis of pictures can be afforded by NP division. Discussion with TC division recommended.

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