Department of Scientific and Industrial Research.

Grant for the construction of a Large Hydrogen Bubble Chamber.

Statement of Grant and Expenditure (including forward Commitment) as at 23rd March 1961.

Revised to include expenditure claimed by Liverpool University.

		Estimate	Expenditure inc- luding commitment as at 23.3.61.	Balance.
		£.	<u>£.</u>	£.
1.	Capital Cost of Chamber.			
i) ii) iii)	Electromagnet and Mounting Vacuum Tank pumping equipment Three main forgings (Chamber vessel and	107,000 32,000	106,022	*978 614
iv)	window flanges) finish machined Expansion pipes and suspension of	26,000	25,361	639
	Chamber Hydrogen and Nitrogen shields fabricated	6,500	4,058	2,442
v) vi)	and machined Tnstrumentation inside Vacuum Tank	5,500 1,000	4 , 684 159	816 841
vii)	Two glass windows and 3 inflatable gaskets. Optical System - Condenser Lenses	13000	11,437	1,563
ix)	(including spares) lens mounting cameras lamps etc. Hydrogen Refrigerator and Transfer Lines	12,000	8 , 581	3,419
,	(a) Main Unit including hydrogen purifier from Cryenco Ltd. (b) Transfer lines. Expansion system outside Vacuum Tank,	29,000 500	28,992 331	8 169
x)	pipes, tanks, compressors, control equipment	34,500	31,569	2,931
xi)	Test plant including coating plant, test vessel, and assembly and testing of components.	13,000	10,840	2,160.
xii)	Spares (other than glass) e.g. gauges, valves etc.	650	90	560.
2. 3. 4.	Consumable Supplies 1959, 1960, 1961. Spare optical parts, gaskets, etc. Helium leak detector and tools	21,000 19,500 6,500	3,222 4,328	17,778 19,500 2,172
5. 6. 7.	Phase two of Control system Modifications to Chamber Travel	7,000 10,000 9,000	6,001	7,000 10,000 2,999
8.	Staff. Administration costs.	61,250 4,350	56,731 4,350	4,519
		£419,250	£338 , 142	£81,108.