Dr J J Thresher HFP Building R1

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DATA ON BUBBLE CHAMBER OPERATIONS

80cm He Bubble Chamber

First operation: Picture taking started: Total number of pictures taken:

March 1967 July 1967 750,000

1.4mm Heavy Liquid Bubble Chamber

First operation with Freon: Picture taking started: First experiment completed:

Pictures taken:

Picture taking started: Picture taking completed:

Pictures taken:

Early 1966 June 1966

1967

Approximately \$400,000

1968

November 1968 September 1969

Approximately \$600,000

15m Hydrogen Bubble Chamber

Reinstalled at RL: March 1967 First operational again: March 1967 Picture taking for first experiment started: January 1968 Pictures taken in 1968 750,000 First operation with Deuterium: March 1969 First operation with Neon Hydrogen mixture: May 1969

First operation with Propane Freon mixture:

First tests on track sensitive target: July 1969 2.2 × 106 Total pictures taken to May 1970

No data available beyond 1970 when chamber was taken over by NIMROD.

Running Costs

Estimates were made on the running costs in May 1967 for the 12m Hydrogen Bubble Chamber on the basis of 200 days operation. The annual costs were:

Liquid Nitrogen £20,000 Electricity: £110,000 Film for 3.75 x 106 pictures: £50,000 Total costs £180,000

The running costs of the Helium and Heavy liquid bubble chamber on the same basis would have been about £150,000 and £120,000 respectively.

M Snowden Technology Division

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