

IN CONFIDENCE

Dr. G. H. Stafford,
Building 412

Cost of nuclear research in Britain

The following figures are approximate:

Cost of nuclear research supported by D.S.I.R.

I CERN

U.K. contribution (25%) to CERN budget £1½ million
p.a.

II D.S.I.R. support of university work

1. At CERN - present commitment 1959/64 £20,000
2. Maintenance of the big machines

Birmingham	approx.	£34,000 p.a.
Glasgow	"	£24,000 p.a.
Liverpool	"	£42,000 p.a.
Small machines at Oxford and Cambridge	"	£ 6,500 p.a.
3. Development of existing machines

Glasgow (increase of energy) Commitment at 1/3/60	£44,000
Birmingham (injector) foreseeable new commitment	£ 50,000
4. New machines

Manchester linear accelerator Commitment at 1/3/60	£285,000
Foreseeable new commitment	£ 80,000
Birmingham cyclotron (ex Cambridge)	£ 23,000
Liverpool Van de Graaf foreseeable new commitment	£405,500 £ 10,500
New machine at Birmingham or Glasgow foreseeable commitment (nominal sum only)	£100,000
5. Liquid hydrogen bubble chamber

Commitment at 1/3/60	£614,000
Foreseeable new commitment	£116,000
6. Other nuclear research (mostly small grants)

Committed prior to 1/4/59	£124,000
" in 4/59	50,000
" " 6/59	106,000
" " 12/59	108,000
Second stage of large shower experiment foreseeable commitment	£100,000

Dr. G. H. Stafford (continuation)

This gives the cost of the present 5 year plan, and adds up to

£2,339,500	existing commitments
£ 456,500	foreseeable "

Two new large projects can be foreseen which cannot be met from the 5-year plan:

1. Oxford University £1,000,000
2. Glasgow " £ 600,000 approx.

This is the project for which £100,000 was allowed above.

You will see that no real allowance is made for supporting university work at CERN. The £20,000 shown has already been committed. £500,000 was originally allowed for the 5 years, but no detailed estimates have been made of what is required.

The total grant for 1959/64 was originally £3,250,000 of which £140,000 was "lost" by underspending in the previous quinquennium. A substantial slice of the £500,000 is still available for work at CERN, therefore, but this may have to be raided for new commitments not yet foreseen.

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