

THE LOCATION OF THE g-2 EXPERIMENT

Two decisions have recently been made :

1. Approval of the g-2 experiment;
2. SE will be made into the West Area for electronic physics whilst maintaining counter facilities in the East Hall along with the 2 m HBC and its beams (See : Utilization of the West Experimental Area, J.V. Allaby, 16.10.69).

It is now necessary to decide where to put the g-2 experiment. A meeting was held (J.V. Allaby, L. Hoffmann, P. Lazeyras, G.L. Munday, G. Petrucci, E. Picasso, M. Reinharz) to see if there was a technical and/or financial case for putting the g-2 in the East Hall.

The following important disadvantages of the East were noted :

- 1) No g-2 running would be possible with the u_5 beam operating.
- 2) A building outside the hall, somewhere in the TC H₂ storage area would have to be made, thus reducing to a negligible amount the savings that could be made by sharing the 3 MW power supply with Gargamelle.
- 3) We could not count on beam transport power supplies being available for the g-2 beam if we "parasite" (e.g. pulse sharing with the South Hall targets) slow ejected beam complex as is now under consideration.

The single advantage of the East was that there would be an adequate water supply for the g-2.

Taking the balance of these factors, the conclusion was unanimously reached that the g-2 should not be put in the East.

Work and discussions will now go on to see how best to accommodate g-2 in the West whilst minimizing the disturbance to other facilities and preferably not using up flat top time.

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