Equipment was purchased under the DoD University Research Instrumentation Program. The equipment is being used in an ongoing program to measure the mass of the antiproton.
The DOD Instrumentation Grant was used to purchase equipment for antiproton experiments and for the production of high frequency microwaves. The antiproton experiments are being supported by the Air Force Office of Scientific Research. They are progressing very nicely. In particular, we have recently cooled antiprotons below 1 eV in energy. Before we started these experiments, the lowest energy antiprotons available had kinetic energies 5 million times higher. The purchased equipment was essential to the antiproton experiments and is being very heavily used. The final version of the millimeter microwave system is completed. It is working although there are still some problems remaining. Hopefully, they will be fixed soon so that the microwave system can be used in the electron experiments described in the proposal.

The equipment monies were spent essentially as proposed. Looking over the list this is not completely obvious on the less expensive items. In the bid process, some of the manufacturers were changed. Also, much of the equipment was assembled from smaller pieces. The exact mix of items purchased to form the millimeter microwave system, for example, was carefully researched before the order was placed in order to determine the optimum mix. In all cases, however, the final assembled system was that described in the proposal and the assembled equipment is in all cases being used for the experiments described.
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