

Results obtained with the Spiral Reader

L.W. Alvarez, (Berkeley)

SUMMARY

The Spiral Reader was originally conceived by B. McCormick, and was developed under his direction until he left for the University of Illinois. At that time, the responsibility was transferred to J.A.G. Russell, with the mechanical design divided between J. Franck and F. Plunder, and the electronic design divided between T. Taussig and J. Salvador. The filter programme was originally written by D. Innes who has been joined by W. Graziano. Since J. Russell left for Brookhaven, J. Salvador has been in charge of the programme, and has brought the machine to its present state.

(Prof. Alvarez showed some slides of the Spiral Reader giving general details and results of scanning different track configurations).

The first figure shows the scanning table designed by J. Franck. On figure 2 one can see the back end of the machine, showing the housing that holds the rotating device that makes the spiral scan. Figure 3 is looking into the spiral device which now has a periscope which moves up and down and rotates around (designed by F. Plunder). In the upper part of figures 4 and 5 the data that goes onto magnetic tape is shown i.e. this is what the Spiral Reader sees. The magnetic tape is then fed into a 709, later of course the 7090, where the filtering operation takes place and in the lower part of the figures one sees the results after filtering.



Figure 1

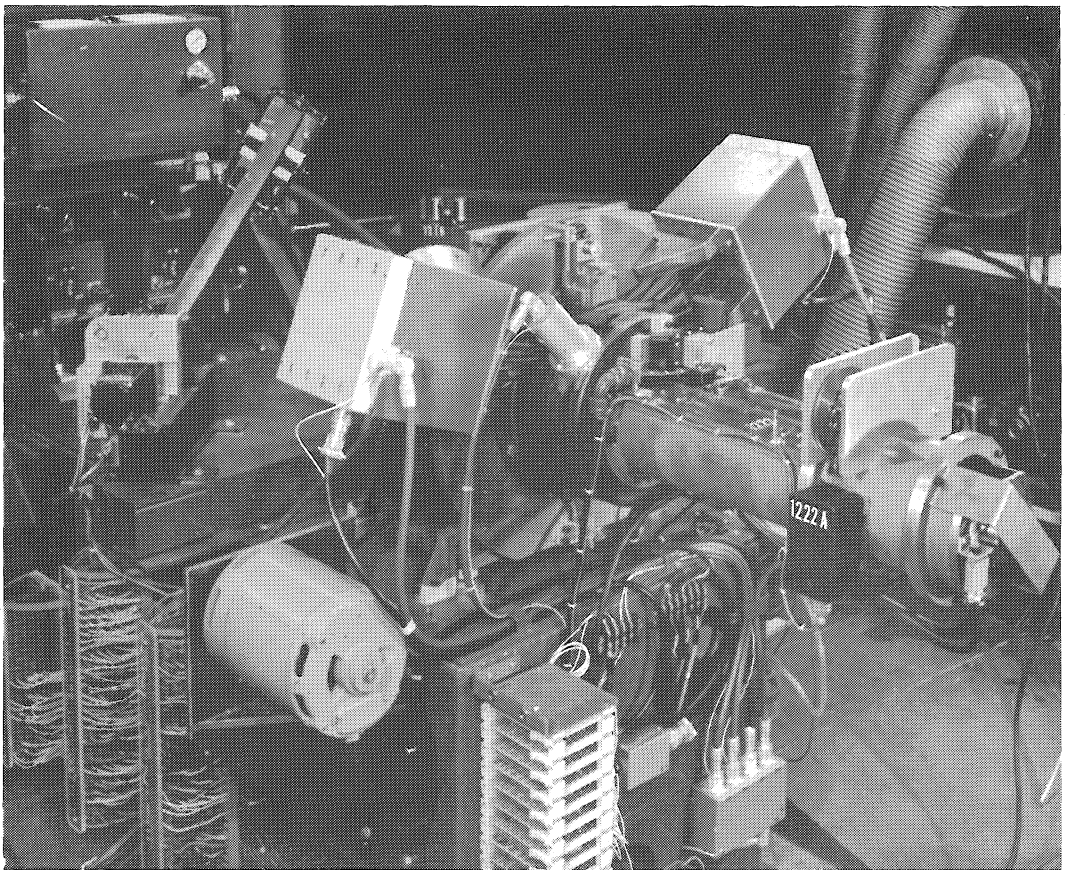


Figure 2

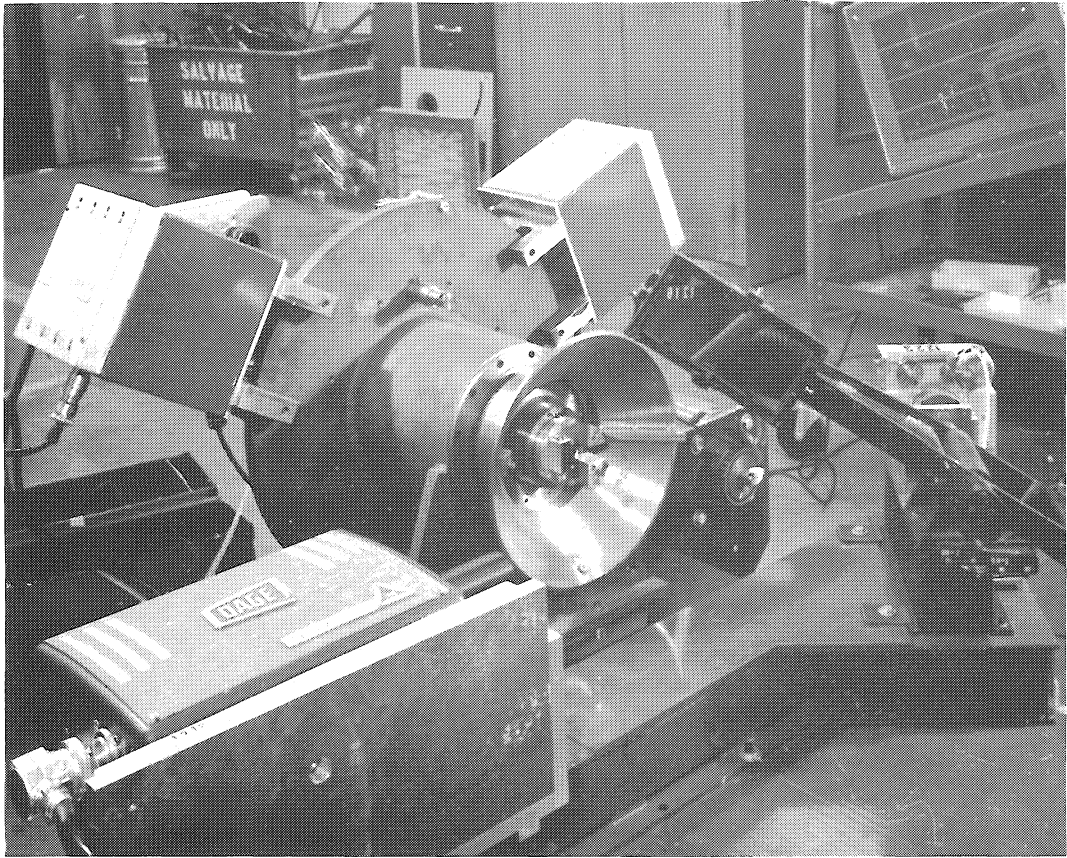


Figure 3

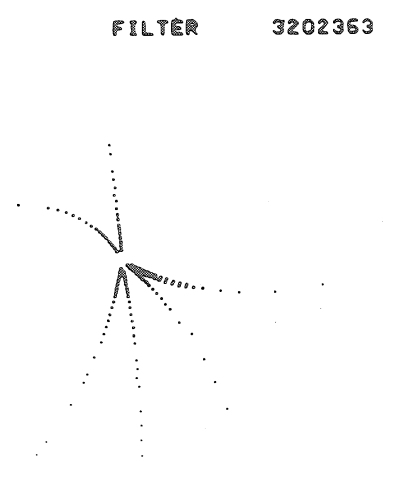
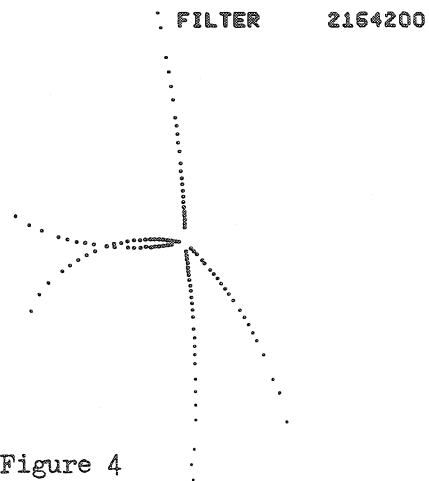
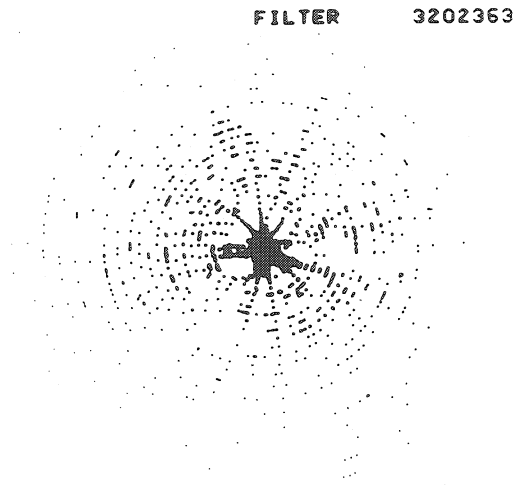
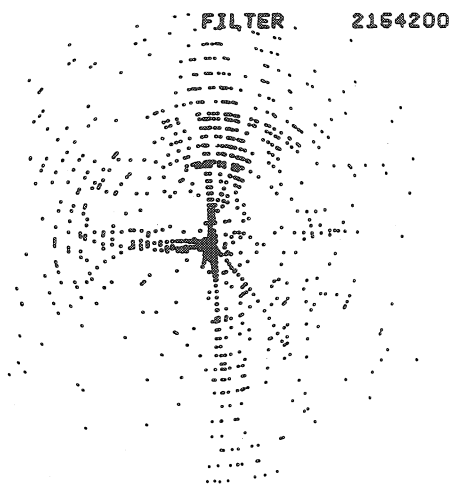


Figure 4

Figure 5