

## CHAPTER V

### EXPERIMENTAL RESULTS

The total number of stars on the background plates is shown in Table 1. The total number of stars on the screened plates No 1, No 2 and No 3 are shown in Table 2,3 and 4 respectively. From Table 1 to 4, the average number of stars under various thicknesses of absorbers were obtained and are shown in Table 5.

Table 6 shows the total number of stars obtained in every plate. From Table 5 and 6 we calculated the number of stars formed in 70 days with the rate of production. The results are shown in Table 7.

The number of stars with more than 2-prongs at various thicknesses of absorbers was calculated by using Table 1 to 4 and was shown in Table 8.

Table 9 shows the number of stars observed on the plates but the number of 2-prong stars are excluded, in order to eliminate the radioactive contamination stars.

The frequency distributions and size distributions of the stars on unscrapped plates were plotted as shown in Fig.1 and Fig.2 having the peak at three prong stars.

From Table 7 we plot the number of stars occurred in 70 days under various thicknesses of absorbers, shown in Fig.3 .

Fig. 4 shows the absorption curve of the star intensity including 2-prong stars. Fig.5 shows the absorption curve of the star intensity excluding 2-prong stars.

Fig.5 shows the number of stars with more than 1-prong under various thicknesses of absorbers, which are collected from Table 5 .