

Figure 7-4

This figure shows an example of the solution of an iterative least-squares fit of the scale factors for each image taken of a given QSO field. Each point represents one comparison star in one image. Each star contributes to the fit with a weight inversely proportional to its variance. The triangles are points rejected from the fit. The open symbols represent data from KPNO which are fit after the scaling factors for all the Lick data points has been determined so as not to introduce any systematic error between the two telescopes into the Lick data points. Some stars apparently show large systematic deviations between the two telescopes- note the open triangles for star number 8.

The brighter comparison stars (*e.g.* stars 3,4, and 5) form tighter bunches with RMS scatters of less than 1%. The fainter comparison stars (*e.g.* 2,7,9,etc.) show much larger scatter due to lower signal-to-noise.

The details of fitting process are given in the text.