this with the previous figure shows that the general trend of the observations is more closely followed. The probability of a secondary disturbance seems somewhat less than with the original elements, and this is further lessened by a knowledge of the fact that the normal places with the highest residuals contain always one or more observations with the universal spectroscope where the temperature control was poor and the spectra contained only two measurable lines.

The result of this computation seems to justify Dr. Schlesinger's contention that, even in the case of spectra in which accurate measurement is impossible, the least-squares solution will give the best determination of the elements of a binary orbit.

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