Figure 1: Normal points formed from the residuals of a determination of the position, proper motion, and parallax of pi Cephei from plates acquired with the 0.76-m photographic objective. The X and Y axis is in thousandths of an arc second. All but the last point represent the mean residuals of 34 consecutive exposures, the last point includes 29 residuals. Periastron of the 160 year orbit occurred in 1934.
Figure 2: Hipparcos residuals to the motion of pi Cephei.
Fig. 3. – Thaw/MAP residuals from a determination of the position, proper motion, and parallax of pi Cephei plotted in phase with the spectroscopically determined period. Normal points are formed from consecutive in-phase residuals. The upper “x” half of the Fig. illustrates the orbital motion in right ascension, the lower half is declination. The Thaw/MAP data spans more than 8 times the 556.72 day period.