

Precision Astronomy After Galileo—Stellar Parallax

ACTIVITY 14

By the 1820s, a century after James Bradley accidentally discovered stellar aberration, telescopes had improved sufficiently that detection of the elusive stellar parallax seemed within the astronomer's grasp. Yet it was no longer necessary to detect the tiny parallax shift of a star—any star—to prove that Earth circles the Sun; stellar aberration had already done that. Nineteenth-century astronomers strove to measure stellar parallaxes for a wholly different reason: to gauge the scale of the cosmos. Stellar parallax provides a direct geometric means to measure the distances of stars—the smaller a star's parallax, the farther away the star.

It was not until 1838 that German astronomer-mathematician Friedrich Bessel succeeded in measuring the first parallax of a star. As expected, it was exceedingly small, confirming what astronomers had already suspected—the distance of stars is truly vast. Today, the parallax, and corresponding distances, of millions of stars have been measured. This activity will acquaint you with the basics of distance estimation using parallax measurements.

■ Wobbly Star

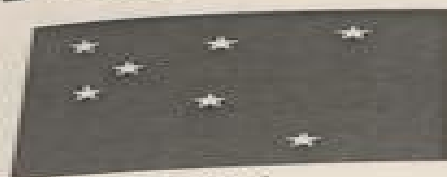


Photo 1

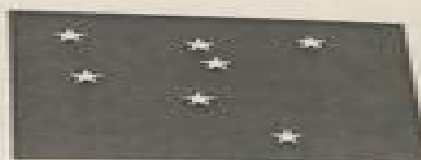


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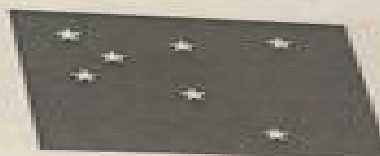


Photo 3

Figure 14-1 Simulated images of a field of stars.

The illustration (**Figure 14-1**) shows a series of simulated “photographs” of the same field of stars.

- *Photo 1:* Stars as they appeared one night in the sky
- *Photo 2:* Same stars as they appeared 6 months later
- *Photo 3:* Same stars 6 months after Photo 2 (1 year after the original photograph, Photo 1)

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H Kauffman



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