

## Astrometric radial velocities

### I. Non-spectroscopic methods for measuring stellar radial velocity \*

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Received 11 February 1999; accepted 26 May 1999

**Abstract.** High-accuracy astrometry permits the determination of not only stellar tangential motion, but also the component along the line-of-sight. Such non-spectroscopic (i.e. astrometric) radial velocities are independent of stellar atmospheric dynamics, spectral complexity and variability, as well as of gravitational redshift. Three methods are analysed: (1) changing annual parallax, (2) changing proper motion and (3) changing angular extent of a moving group of stars. All three have significant potential in planned astrometric projects. Current accuracies are still inadequate for the first method, while the second is marginally feasible and is here applied to 16 stars. The third method reaches high accuracy ( $< 1 \text{ km s}^{-1}$ ) already with present data, although for some clusters an accuracy limit is set by uncertainties in the cluster expansion rate.

**Key words:** Methods: data analysis — Techniques: radial velocities — Astrometry — Stars: distances — Stars: kinematics — open clusters and associations: general

#### 1. Introduction

For well over a century, radial velocities for objects outside the solar system have been determined through spectroscopy, using the (Doppler) shifts of stellar spectral lines. The advent of high-accuracy (sub-milliarcsec) astrometric measurements, both on ground and in space, now permits radial velocities to be obtained by alternative methods, based on geometric principles and therefore independent of spectroscopy. The importance of such *astrometric radial velocities* stems from the fact that they are independent of phenomena which affect the spectroscopic method, such as line asymmetries and shifts caused by atmospheric pulsation, surface convection, stellar rotation, stellar winds, isotopic composition, pressure, and gravitational potential. Conversely, the differences between spectroscopic and astrometric radial velocities may provide information on these phenomena that cannot be obtained by other methods. Although the theoretical possibility of deducing astrometric radial velocities from geometric projection effects was noted already at the beginning of the 20th century (if not earlier), it is

only recently that such methods have reached an accuracy level permitting non-trivial comparison with spectroscopic measurements.

We have analysed three methods by which astrometric radial velocities can be determined (Fig. 1). Two of them are applicable to individual, nearby stars and are based on the well understood secular changes in the stellar trigonometric parallax and proper motion. The third method uses the apparent changes in the geometry of a star cluster or association to derive its kinematic parameters, assuming that the member stars share, in the mean, a common space velocity. In Sects. 4 to 6 we describe the principle and underlying assumptions of each of the three methods and derive approximate formulae for the expected accuracy of resulting astrometric radial velocities. For the first and second methods, an inventory of nearby potential target stars is made, and the second method is applied to several of these.

However, given currently available astrometric data, only the third (moving-cluster) method is capable of yielding astrophysically interesting, sub- $\text{km s}^{-2}$  accuracy. In subsequent papers we develop in detail the theory of this method, based on the maximum-likelihood principle, as well as its practical implementation, and apply it to a number of nearby open clusters and associations, using data from the Hipparcos astrometry satellite.

#### 2. Notations

In the following sections,  $\pi$ ,  $\mu$  and  $v_r$  denote the trigonometric parallax of a star, its (total) proper motion, and its radial velocity. The components of  $\mu$  in right ascension and declination are denoted  $\mu_{\alpha^*}$  and  $\mu_{\delta}$ , with  $\mu = (\mu_{\alpha^*}^2 + \mu_{\delta}^2)^{1/2}$ . The dot signifies a time derivative, as in  $\dot{x} = dx/dt$ . The statistical uncertainty (standard error) of a quantity  $x$  is denoted  $\sigma(x)$ . (We prefer this non-standard notation to  $\epsilon_x$ , since  $x$  is itself often a subscripted variable.)  $\sigma_v$  is used for the physical velocity dispersion in a cluster.  $A = 1.49598 \times 10^8 \text{ km}$  is the astronomical unit; the equivalent values  $4.74047 \text{ km yr s}^{-1}$  and  $9.77792 \times 10^5 \text{ mas km yr s}^{-1}$  are conveniently used in equations below (cf. Table 1.2.2 in Vol. 1 of ESA 1997). Other notations are explained as they are introduced.

\* Based (in part) on observations by the ESA Hipparcos satellite

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