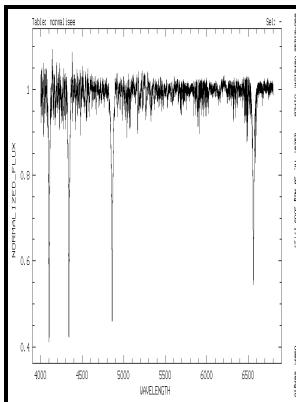


Wave-Length Standards For Radial-Velocity Determinations From B-Type Spectra.

-- Radial velocity



Description: -

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Radial velocity

The quantity obtained by this method may be called the barycentric radial-velocity measure or spectroscopic radial velocity. Radial velocity methods alone may only reveal a lower bound, since a large planet orbiting at a very high angle to the will perturb its star radially as much as a much smaller planet with an orbital plane on the line of sight. Diagram showing how an exoplanet's orbit changes the position and velocity of a star as they orbit a common center of mass.

Radial velocity

As the spectra of these stars vary due to the Doppler effect, they are called. In astronomy, the point is usually taken to be the observer on Earth, so the radial velocity then denotes the speed with which the object moves away from the Earth or approaches it, for a negative radial velocity.

Radial velocity

By contrast, astrometric radial velocity is determined by observations for example, a in the annual. The radial velocity of a or other luminous distant objects can be measured accurately by taking a high-resolution and comparing the measured of known to wavelengths from laboratory measurements.

Radial velocity

By regularly looking at the spectrum of a star—and so, measuring its velocity—it can be determined if it moves periodically due to the influence of an exoplanet companion.

Radial velocity

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