

LIGHT CURVE MODELING OF ECLIPSING BINARY STARS

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I have developed a binary star model `ellc` that can be used to analyse the light curves of detached eclipsing binary stars and transiting exoplanet systems that is fast and accurate, and that can include the effects of star spots, Doppler boosting and light-travel time within binaries with eccentric orbits. Solutions with applied constraints and simultaneous solutions of two or more kinds of observations are coming into more frequent usage. The source code and examples are available as an open-source software project.

The calculation of the light curve then proceeds using Eq. Asymmetric line profiles can be caused by convective blue-shift in cool stars, the R-M effect, pulsations, star spots, and instrumental effects. The volume and quality of data are both set to improve as a result of current and future transiting planet surveys such as the K2 mission Howell et al. I use these equations in `ellc` to calculate the variation in flux from each star due to spots in the model.

The distribution of the integration points is approximately uniform over the missing from `ellc` include the transverse Doppler effect and gravitational redshift.