

Applications of Fourier disentangling on the spectra of multiple stars

Jan Elner

Fourier disentangling is one of progressive methods developed for decomposition of composite spectra of multiple stellar systems. We apply code KOREL (Hadrava, 2004) to study several stellar systems, to obtain individual spectra of their components, to precise their orbital parameters and even unveil so far undetected components as well as suggest their physical nature. Secular changes of the orbital parameters can be studied as well. These calculations can be treated as a test of applicability, functionality and limitations of the presented method and some conclusions can be discussed.

References:

Hadrava P., 2004, "KOREL – User's Guide", Publications of the Astronomical Institute of the Academy of Sciences of the Czech Republic, No. 92, p. 15 - 35