

RR Lyraes are pulsating variable stars that are important in determining the age of the Universe and in constraining theories of galaxy formation. An important quantity is the metallicity of an RR Lyrae - usually determined from spectroscopy. IN Astrophysics, metallicity is the amount of elements other than hydrogen or helium. Here we employ a photometric method to determine metallicities for RR Lyraes observed by the CSTAR telescope in Antarctica. Though the mirror is small, the long polar night allows an unusually long time series without interruptions. We use Fourier decomposition techniques to smooth the data and quantify the structural properties of the light properties of the light curves and obtain metallicities.