# A Spectroscopic Abundance Study of Dwarf Cepheid V1719 Cygni

Chulhee Kim[1], Kozo Sadakane[2]

[1]*Department of Earth Science Education, Chonbuk National University, KOREA,*
[2]*Astronomical Institute, Osaka Kyoiku University, JAPAN*

## Abstract

Spectroscopic CCD observations were carried out for V1719 Cygni and the spectrum in the visual region is analysed relative to the Sun with a line-blanketed convective model atmosphere. Adopted atmospheric parameters are : an effective temperature $< T_{\rm eff} > = 7000$ K, a surface gravity $logg = 3.4$. Although our result is dependent on microturbulent velocity and damping constant, it was found that Mg in V1719 Cygni is nearly solar, or underabundent by 0.2 to 0.3 dex according to the analysis of 5172.684 $\AA$ MgI line which is relatively free from blending. This is inconsistent with the previous photometric result where V1719 Cygni was known as an abnormally metal rich variable. Because the analysis was given to the single magnesium line which is not a good metallicity indicator and S/N ratio was low due to poor seeing condition, the investigation for iron lines in blue region is undertaken.



https://doi.org/10.1017/S0252921100117919 Published online by Cambridge University Press