

The Metallicity of Omega Centauri RR Lyrae Stars from *Caby* Photometry

Soo-Chang Rey(1), Young-Wook Lee(2), Alistair Walker(3), and Scott Baird

(1) Center for Space Astrophysics and Department of Astronomy, Yonsei University

(2) CTIO

(3) Department of Physics & Astronomy, University of Kansas and
Department of Physics & Astronomy, Benedictine College

We present new metallicity measurements for 131 RR Lyrae stars in the Omega Cen using the *hk* index of *Caby* photometric system.

The observed relationship between the luminosity and metallicity is in excellent agreement with the model locus predicted by our horizontal-branch models. This confirms our earlier prediction that the luminosity of RR Lyrae stars depends on evolutionary status as well as metallicity.