[7ST-01] Stellar surface gravity extracted from Wilson-Bappu effect

Sun-kyung Park¹, Wonseok Kang¹, Jeong-Eun Lee¹, Sang-Gak Lee²

School of Space Research, Kyung Hee University

Astronomy Program, Department of Physics and Astronomy, Seoul National University

[7ST-02] The Effects of Nitrogen and Oxygen Abundance Variations on The Evolutionary Tracks of Low-Mass Stars

Chongsam Na^{1,2}, Young-Wook Lee^{1,2}, Sang-il Han^{1,2},
Kiehunn Bach¹, and Yong-Cheol Kim¹

Department of Astronomy, Yonsei University, ²Center for Galaxy Evolution Research

Recent observations show that there are variations in light elements, such as C, N, O, and Na, between the sub-populations in most globular clusters in the Milky Way. In order to investigate their effects on the evolution of stars in globular clusters, we constructed new sets of isochrones and horizontal branch evolutionary tracks under different assumptions as to the abundance of N and O ([N/Fe] and [O/Fe], respectively). In this talk, we will present our preliminary results from these calculations.