

## High-Resolution Spectroscopy of 15 Metal-Poor Stars Using BOES

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In order to obtain a clearer understanding on the evolution of Our Galaxy, we are currently undertaking a series of spectroscopic observation for few hundreds metal poor halo stars. As the first result, we present the chemical abundance measurements for 15 metal-poor dwarf stars in the solar neighborhood. The observation was made with the BOES #4-fiber, providing the effective resolving power  $R=32000$ . The program stars have metallicities ranging from -1.6 to -2.8 with the mean value of  $[Fe/H] = -2.28$ . Using the standard spectral data reduction technique with a number of IRAF routines and the MOOG-Kurucz model atmosphere, the mean elemental abundances were estimated as  $[O/Fe] = 0.73$ ,  $[Na/Fe] = -0.16$ ,  $[Ca/Fe] = 0.28$ , and  $[Ti/Fe] = 0.60$ . The results are consistent with those of the previous estimates, indicating that the Galactic halo formed very early in time.