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国台学术报告 NAOC COLLOQUIUM

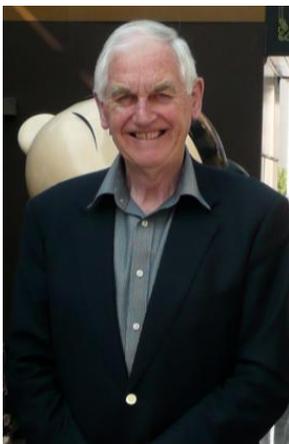
2017年 第12次 / No. 12 2017

Time: Tuesday 2:30 PM, Apr.25th **Location: Multi-Function Hall, NAOC**

SkyMapper Southern Sky Survey and Searching for Extremely Metal-poor Stars

Prof. Michael S. Bessell

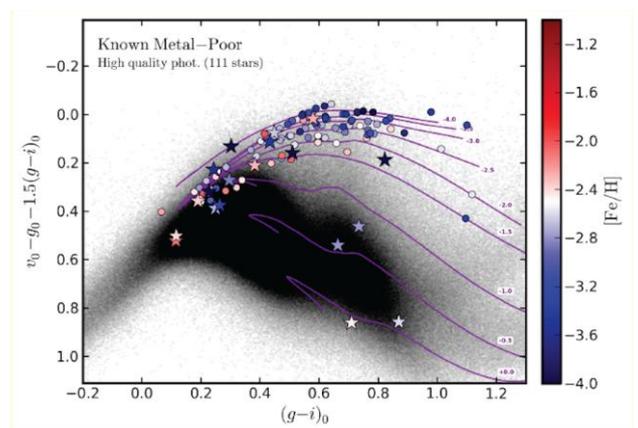
The Australian National University, Canberra, Australia



Prof. Michael S. Bessell Born in and educated in Tasmania, graduated BSc (hons) from the University of Tasmania; and got his PhD in Astronomy and Astrophysics, ANU, ACT. He then have had appointments or short term visiting positions at Yerkes Observatory and KPNO, USA; Landesternewarte Heidelberg, Germany; Observatoire de Paris, Meudon, France; Canterbury University, New Zealand; SAAO, Capetown, South Africa; Uppsala Observatory, Sweden; Sejong University, Korea. He is widely regarded as the world-leading expert on photometric systems and the temperature calibration of stars cooler than the sun. His work in astronomy has mainly been to determine how stars of different mass evolve in our Galaxy and the Magellanic Clouds. He has worked and published papers in almost all areas associated with the stellar science that will be done with SkyMapper, most recently in the search for extremely metal-poor stars, and the search for nearby young M dwarfs that will be candidates for searches for protoplanetary disks, protoplanets and brown dwarfs.

Abstract

The SkyMapper photometric survey of the southern sky has the discovery of extremely metal-poor (EMP) stars as one of its main science aims. This is accomplished by the inclusion of a narrow-band 'v' filter centered on the Ca II H+K lines to generate a photometric index that is sensitive to metallicity. The NAOC Sage program will carry out a similar northern hemisphere survey. The SkyMapper short exposure survey has now been completed and the First data release DR1 will be early May 2017. There was an Early Data Release in mid-2016 and I have been obtaining $R=3000$ follow-up spectra of EMP candidates since then. In this talk I will discuss the candidate selection and follow-up spectroscopy plus the results of high resolution observations of the most metal-poor candidates.



All are welcome! Tea, coffee, biscuits will be served at 2:15 PM.