Can Cui

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Education

2014-2015 University of Cambridge, Cambridge, UK

Part III/MASt in Astrophysics

2010-2014 Pennsylvania State University, University Park, USA

B.S. in Astronomy and Astrophysics
B.S. in Physics
Minor in Mathematics

Research Experience

2014 -2015 Instiute of Astronomy, University of Cambridge, Cambridge, UK
Part III/MASt Astrophysics Project – Searching for Progenitors of Type Ia Supernovae

- Fitted 752 photometrically-classifield Type Ia supernovae light curves by SALT2 and k-corrected them to the rest-frame
- Measured the rise time of light curves, effective temperature at maximum light and Nicole mass from the progenitor systems
- Simulated light curves and performed Kolomogorov - Smirnov tests to constrain the progenitor systems

Supervised by Dr. Heather Campbell

2012 -2014 Department of Astronomy and Astrophysics, Pennsylvania State University, USA
Honours Thesis Project – Studying Star Forming Galaxies

- Reduced the HST ACS slit-less spectroscopic data from the 3D-HST
- Selected emission-line galaxies by identifying Hα, Hβ and O [II]
- Measured star formation rate through Hα emission, dust extinction through Balmer decrement, and stellar mass through spectra energy distribution fitting

Supervised by Prof. Robin Ciardullo

Talk

April 2014 Neighborhood Workshop on Astrophysics and Cosmology, Pennsylvania State University, USA

Title: *Detecting Emission-line Galaxies at z$\sim$1 in 3D-HST*

Honours

2012-2014 Elsbach Honours Scholarship

2014- Member of Sigma Pi Sigma – The Physics Honour Society

2011- Member of Golden Key International Honour Society

Programming

Python, MatLab, IDL

Interests

Traditional Chinese Gongbi Painting, Chinese Calligraphy