Cameron P. M. Bell

Curriculum Vitae

✍ Department of Physics & Astronomy
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Research Interests

- Formation and evolution of stars
  - Low-mass stars
  - Initial mass function
  - Circumstellar discs; planet formation
- Star clusters, associations and moving groups
  - Colour-magnitude diagrams
  - Evolutionary models
  - Stellar ages; fundamental stellar properties
  - Environmental effects on star and planet formation

Research Positions

Sep. 2013 – **Postdoctoral associate**, University of Rochester

Education

Nov. 2012 **Ph.D.** Astrophysics, University of Exeter
Thesis *A Critical Assessment of Ages Derived Using Pre-Main-Sequence Isochrones in Colour-Magnitude Diagrams*
Advisor Prof. Tim Naylor

Jun. 2007 **M.Phys.** Astrophysics (Hons.), University of St. Andrews
Dissertation Coronal X-Ray Activity of Rapidly Rotating Late-Type Stars
Advisor Dr. Gaitee Hussain

Research Talks

Invited

May 2015 IAU Symposium 314: Young Stars & Planets Near the Sun, Atlanta
The isochronal age scale for young stars

Apr. 2014 University of Rochester, Astrophysics Seminar
The ages of young stars

Contributed

Jul. 2012 The Formation and Early Evolution of Stellar Clusters, Sexten
Pre-main-sequence stars: older than we thought?

Mar. 2012 UK-Germany National Astronomy Meeting 2012, Manchester
A revised pre-main-sequence age scale

Telescope Time Awarded

18 nights	*Isaac Newton* Telescope: WFC
4 nights	*William Herschel* Telescope: AF2/WYFFOS
1 night	Gemini North: GMOS
0.5 nights	Very Large Telescope: FLAMES
2 nights	Blanco 4-m Telescope: DECam

Service and Teaching

2014 –	Journal Referee: ApJ, MNRAS
2008 – 2012	Teaching assistant: Stage II Astrophysics
2008 – 2012	Open Day talks and tours
2007 – 2008	Teaching assistant: Stage II Physics

Computer skills

Languages	Fortran, C-shell scripting, Python, HTML
Programs	CLUSTER (photometric reduction), TOPCAT, Aladin, LaTeX, IRAF, Gnuplot
Operating systems	Mac OS X, Unix/Linux

References

Prof. Eric Mamajek

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Prof. Tim Naylor

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Prof. Rob Jeffries

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Bibliography of Publications

72 Total citations

49 Citations to first-author publications

23 Citations to n^{th}-author publications

9 Refereed publications

4 Hirsch h-index

Book (edited)

1. *Saas-Fee Advanced Course 42: Dynamics of Young Star Clusters & Associations*
Edited by Michael R. Meyer, Laurent Eyer & **Cameron P. M. Bell**. Published by Springer and due in Summer 2015

First author

3. *Pre-main-sequence isochrones – III. The Cluster Collaboration isochrone server*
Cameron P. M. Bell, Jon M. Rees, Tim Naylor, N. J. Mayne, R. D. Jeffries, Eric E. Mamajek & John Rowe, MNRAS, 445, 3496

2. *Pre-main-sequence isochrones – II. Revising star and planet formation time-scales*
Cameron P. M. Bell, Tim Naylor, N. J. Mayne, R. D. Jeffries & S. P. Littlefair, MNRAS, 434, 806

1. *Pre-main-sequence isochrones – I. The Pleiades benchmark*
Cameron P. M. Bell, Tim Naylor, N. J. Mayne, R. D. Jeffries & S. P. Littlefair, MNRAS, 424, 3178

Co-author

6. *Modeling Transiting Circumstellar Disks: Characterizing the Newly Discovered Eclipsing Disk System OGLE LMC-ECL-11893*
Erin L. Scott, Eric E. Mamajek, Mark J. Pecaut, Alice C. Quillen, Fred Moolekamp & **Cameron P. M. Bell**, ApJ in press

5. *On the age of the β Pictoris moving group*
Eric E. Mamajek & **Cameron P. M. Bell**, MNRAS, 445, 2169

4. *A search for eclipsing binaries that host discs*
Zeyang Meng, Alice C. Quillen, **Cameron P. M. Bell**, Eric E. Mamajek, Erin L. Scott & Ji-Lin Zhou, MNRAS, 441, 3733

3. *Variability in the 2MASS calibration fields: a search for transient obscuration events*
Alice C. Quillen, Marco Ciocca, Jeffrey L. Carlin, **Cameron P. M. Bell** & Zeyang Meng, MNRAS, 441, 2691

2. *A lithium depletion boundary age of 22 Myr for NGC 1960*
R. D. Jeffries, Tim Naylor, N. J. Mayne, **Cameron P. M. Bell** & S. P. Littlefair, MNRAS, 434, 2438

1. *No evidence for intense, cold accretion onto YSOs from measurements of Li in T-Tauri stars*
D. J. Sergison, N. J. Mayne, Tim Naylor, R. D. Jeffries, and **Cameron P. M. Bell**, MNRAS, 434, 966

In preparation

1. *A self-consistent age scale for young moving groups and associations in the Solar Neighbourhood*
   Cameron P. M. Bell and Eric E. Mamajek