

Curriculum Vitae

Dr. Theo ten Brummelaar

August 8, 2018

Home

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Work

The CHARA Array of
Georgia State University
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Date of Birth: Second of May, 1962.

Citizenship: United States & Australia.

Employment History:

- Center for High Angular Resolution Astronomy (CHARA - Georgia State University):
 - **September 2015 - Present: Director of the CHARA Array**
 - March 2001 - July 2015: Associate Director of CHARA
 - May 1996 - February 2001 : Research Scientist II.
 - April 1993 - April 1996 : Postdoctoral Research Fellow.
- University of Sydney: 2008-present Honorary Appointment at the School of Physics
- Partner in CHIP software company: January 1989 - January 1993. Clients included:
 - University of New South Wales: Civil Engineering Department, Road illumination simulation software.
 - University of Sydney: Music Department, MIDI Music/Studio control software.
 - Commonwealth Scientific and Industrial Research Organisation: Non-destructive test group, FTI a large gear testing instrument.
- Lamplight Theatre: 1990. Actor.
- Continuing Education Programme (Sydney University) : March 1989 - 1991.

Lecturer in a basic Astronomy course for adults entitled 'Introduction to Astronomy'.

- Special Broadcasting Service : April 1980 - December 1992.
Part-time Radio Broadcast Operator, Producer and Sound Engineer.
- Commonwealth Scientific and Industrial Research Organisation (CSIRO), Division of Applied Physics : Experimental Scientist December 1985 - November 1988.
Working on the development of a new 3-D ultrasonic scanning and imaging system for the metal and airline industries.
- University of Sydney : 1985 and 1989
Laboratory demonstrator for physics ID.
- Anglo-Australian Observatory : A summer vacation job 1984/85.
Development of a software package for the reduction of spectropolarimetry data on a VAX 11/780 running VMS.
- Free-lance programmer : January 1982 - January 1984.
Clients included:
 - Merc Sharpe and Dome : Developing a graphics program for promotional purposes.
 - E.T.P. SEMRA/OXFORD : Developing the software for their C.A.R.D. scanning electron microscope composition analysis system.
 - University of New South Wales : Producing ‘Road View’, a road design and perspective package for the Civil Engineering Department.

Memberships:

- American Institute of Physics
- American Astronomical Society
- Astronomical Society of Australia
- Sydney Association for Astrophysics

Invited Presentations:

- Invited talk at IAU meeting in Hawaii, USA, 2015.
- Invited talk at SPIE meeting in Montreal, Canada, 2014.
- Invited talk at colloquium held at Observatoire de Haute Provence, France, September 23-27, 2013
- Invited talks at SPIE meeting in Amsterdam, The Netherlands, 2012
- Invited talk at Jenam meeting, Lisbon, September 2010.
- Invited talk at SPIE meeting 7734, San Diego, June 2010.

- Invited talk at SPIE meeting 7013, Marseilles, March 2008.
- Chair of United States Interferometry Consortium (USIC) splinter session at the SPIE General Meeting, Marseille, June 2008
- Chair of United States Interferometry Consortium (USIC) splinter session at the American Astronomical Society General Meeting, Austin, January 2008
- Invited talk at CSIRO Department of Radio Physics November 2007
- Invited talk and discussion panel member at NOAO Interferometry Work Group meeting, Tucson, November 2006.
- Two invited talks at the IAU General Assembly, Prague, August 2006.
- AEOS science review, Hawaii, June 2004.
- Lecturer, Michelson Interferometry Summer School, Pasadena CA, June 2003.
- Invited talk and discussion panel member at SPIE meeting 4838, Hawaii, August 2002.
- Lecturer, Michelson Interferometry Summer School, Harvard MA, June 2002.
- IAU working group meeting on Optical/IR interferometry, Observatoire de Haute Provence, France, August 2001.
- Lecturer, Michelson Interferometry Summer School, Berkeley CA, August 2000.
- NSF workshop on Optical Interferometric Imaging, Socorro NM, June 2000.
- Lecturer, Michelson Interferometry Summer School, Pasadena CA, August 1999.
- Astronomical Society of the Pacific meeting on Adaptive Optics and Stellar Interferometry **Catching the Perfect Wave**, New Mexico, June 1998.
- European Southern Observatory meeting on science with the VLTI, Garching Germany, June 1996.
- Symposium on Optical/Infrared and Adaptive Optics in honor of Charles H. Townes, Berkeley CA, 1996.
- Optical Society of America Annual General Meeting, Portland OR, 1995
- Astronomical Society of the Pacific Annual general meeting, Flagstaff AZ, 1993

Research Grant Income:

I have worked on 36 proposals, 21 (58%) of which have been successful.

This represents a total of over \$20 or approximately \$800,000 per year

- 2016 - Co.I. (P.I*. Douglas Gies) Support for Astrophysics from the CHARA Array - National Science Foundation - \$1.2M
- 2016 - P.I. Enabling Milliarcsecond Astrophysics: Open access for the CHARA Array (2016-2020) - National Science Foundation (MSIP) - \$3.9M
- 2015 - Co.I. (P.I. John Monnier) Collaborative Research: Imaging planet-forming disks around young Suns using a revolutionary infrared detector (2015-2018) - National Science Foundation - \$35,530 (Full proposal \$1.3M)
- 2015 - P.I. Adaptive Optics for the CHARA Array - Phase II - National Science Foundation (2015-2018) - \$1,618,494
- 2012 - Co.I. (P.I. Harold McAlister) Fundamental Stellar Parameters from the CHARA Array (2012 - 2017) - National Science Foundation - \$1,150,212USD
- 2011 - Co.I. (P.I. John Monnier) Imaging starspots on active stars using the upgraded MIRC-6 combiner on the CHARA interferometer, National Science Foundation (2011 - 2014), \$370,741
- 2011 - P.I. Adaptive Optics for the CHARA Array - Phase I - National Science Foundation (2011 - 2016) - \$1,109,182
- 2009 - Co.I. (P.I. Harold McAlister) Fundamental Stellar Parameters from the CHARA Array (2009 - 2012) - National Science Foundation - \$894,114USD
- 2008 - Co.I. (P.I. Michael Ireland) Multiplicity of Star and Planet Formation with the PAVO instrument - Australian Research Foundation (2008 - 2011) - \$503,000 AUD
- 2008 - Co.I. (P.I. John Monnoer) First Science with the CHARA Fringe Tracker: Imaging Planet-forming Disks around Young Stars - National Science Foundation (2008-2011) - \$512,607USD
- 2007 - Co.I. (P.I. John Monnier) First Imaging of Rapid Rotators and Be Stars with Long-Baseline Interferometry (2007 - 2010) - National Science Foundation - \$287,537USD
- 2007 - Co.I. (P.I. Peter Tuthill) Multiplicity of Star and Planet Formation with the PAVO Instrument (2007 - 2010) - Australian Research Council - \$503,000AUD
- 2006 - Co.I. (P.I. Harold McAlister) Fundamental Stellar Properties from the CHARA Array (2006 - 2009) - National Science Foundation - \$706,158USD
- 2005 - Co.P.I (Other P.I. Rebecca Oppenheimer) The Instruments of Exoplanetary Science: A new Exhibit at the American Museum of Natural History (2005-2007) , Michelson Science Center, \$136,000USD

- 2004 - Co.I. (P.I. John Monnier) Infrared Fringe Tracking with the CHARA Interferometer: Imaging YSO Disks and Faint Companions - National Science Foundation (2004 - 2007) - \$830,221USD
- 2003 - Co.I. (P.I. James Llyod) Precision Imaging with Adaptive Optics Non-Redundant Masking Interferometry - National Science Foundation/AFOSR (2003-2006) - \$189,069USD
- 2003 - Co.I. (P.I. Harold McAlister) Fundamental Stellar Parameters from the CHARA Array (2003 - 2006) National Science Foundation - \$727,811USD
- 2003 - Co.I. (P.I. Harold McAlister) US-France Cooperative Research: An Integrated Optics Beam Combiner for the CHARA Array (2003 - 2004) - National Science Foundation - \$18,810USD
- 2002 - P.I. Atmospheric Turbulence studies using the AEOS adaptive Optics System (2002 - 2004) - AFOSR - \$200,000USD
- 2000 - P.I. A Faint Companion Search and Multiplicity Survey of O and B Stars (2000-2002) - National Science Foundation/AFOSR - \$142,876USD
- 2000 - Co.I. (P.I. Willaim Bagnuolo) A Spectrographic capability for the CHARA Array - National Science Foundation (2000 - 2002) - \$200,000USD
- 1996 - Co.I. (P.I. Harold McAlister) - Binary star observations at the Starfire Optical Range - National Science Foundation (1996 - 1998) - \$80,000USD
- 1994 - Author (P.I. Harold McAlister) Construction of the CHARA Array - National Science Foundation - \$5.6M with matching funds from Georgia State University (1994 - 1999). This proposal was written while I was a Post-Doctoral Associate with CHARA and I wrote 10 of the 26 technical reports for this proposal.

Referee Experience:

I have served as a referee for papers and proposals for the following organizations and journals:

- NASA LBTI
- Physics Today
- Keck Time Allocation Committee
- Journal of Applied Optics.
- Journal of Astronomy and Astrophysics
- Journal of the Optical Society of America.
- The Astronomical Journal
- Phillips Laboratory: Imaging Group, Kirtland Air force Base, NM.
- Smithsonian Institution.
- JPL/NASA

- NASA NSPIRES
- National Science Foundation.
- Keck Interferometer
- Space Interferometry Mission/NASA

Graduate Students:

Despite being located in California, some 2500 miles from campus, I have been, and continue to be, directly involved in the supervision of graduate students and their research. The following students were supervised by me and have since graduated:

- John Hilderbrand 1996. John constructed a detector system for the CHARA Array adaptive optics system. He is now working in the telecommunications industry.
- Nils Turner 1997. Nils built the prototype beam combiner for the CHARA Array and is currently a Senior Research Scientist here at the CHARA Array.
- Lewis Roberts 1998. Lewis did a study of various techniques for finding and measuring faint companions to nearby stars. He is currently working for JPL/NASA in the Adaptive Optics and Astronomical Instrumentation Group
- David Berger 2003. David designed and built the longitudinal dispersion corrector for the CHARA Array. He is currently working for the System Planning Corporation.
- Chad Ogden 2005. Chad designed and built the prototype optical light beam combiner for the CHARA Array. He is currently working for Lockheed/Martin.
- Chris Farrington 2008. Chris did a binary star survey and developed new techniques for binary star research with an interferometer. He is currently working as a Researcher here at the CHARA Array.
- Nic Scott. Nic is worked on a spectrographic mode for the FLUOR beam combiner at CHARA and is now at NASA/Ames working on speckle cameras for the Gemini telescopes.

Tertiary Education:

Ph.D. Thesis:

‘Taking the Twinkle Out of the Stars: An Adaptive Wavefront Tilt Correction Servo and Preliminary Seeing Study for SUSI.’

Submitted in November 1992, accepted August 1993, awarded Feb 1994.

Honors Project:

‘A Microthermal array for measuring local contributions to seeing conditions.’

Awarded a Bachelor of Science with First Class Honors in March 1986.

Secondary Education:

School : Heathcote High School, N.S.W. Australia.

Subjects : Maths, English, Physics, Chemistry and Engineering Science.

Aggregate : 473 (out of 500)

Academic Awards:

- Fizeau Fellowship Award 2010
- Astronomical Society of the Pacific Muhlmann Award (in conjunction with CHARA team) 2007
- University of Sydney Denison Distinguished Visitor Award 2007
- New South Wales Expatriate Scientist Award 2003.
- Sydney University Henry Chamberlain Russell Prize 1993.
- Commonwealth Postgraduate Research Award 1988, 1989, 1990 and 1991.
- The Science Foundation for Physics scholarship No. 3 1984.
- Equal top of Physics II at the University of N.S.W. 1981.
- Dux of school (Valedictorian), Heathcote High school 1979.

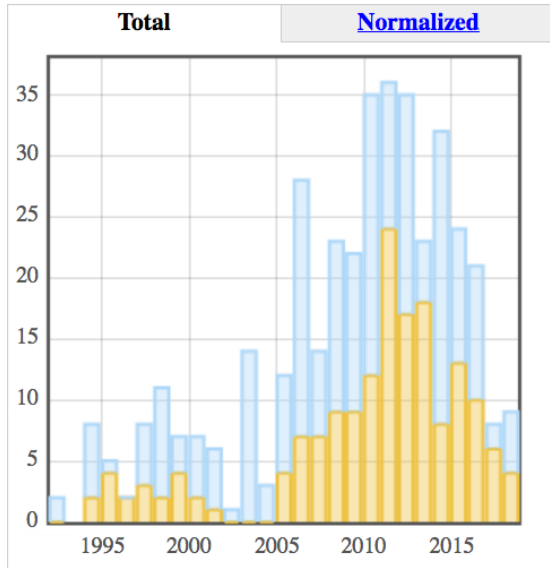
Publication Summary:

H Index from ADS: 44 (43 Refereed)

These publications have resulted in over 6000 citations.

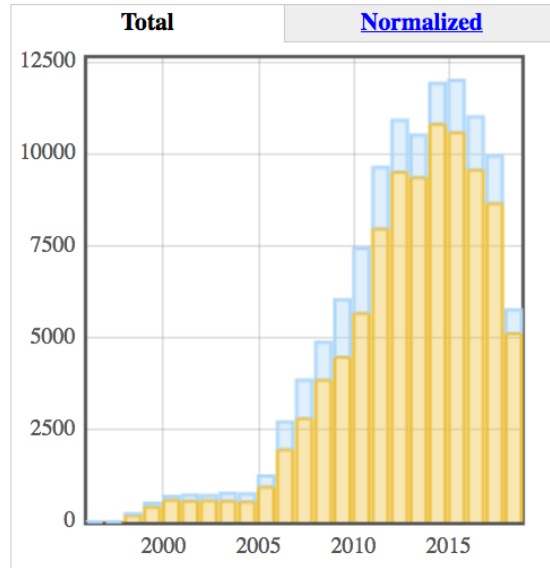
The following diagrams were generated using the ADS web service.

Publications per year



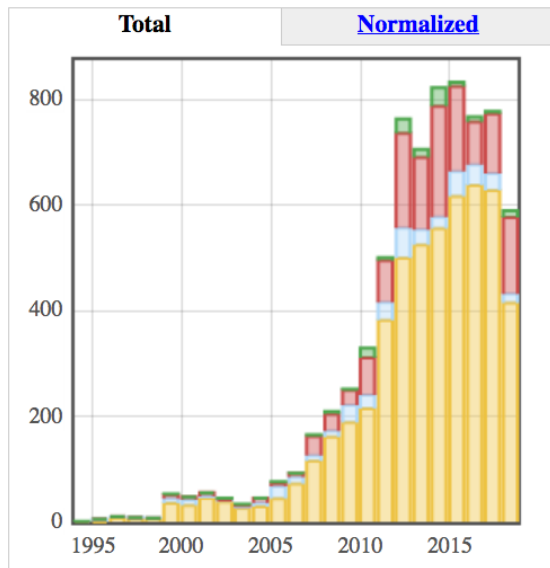
- Refereed
- Not Refereed

Reads per year



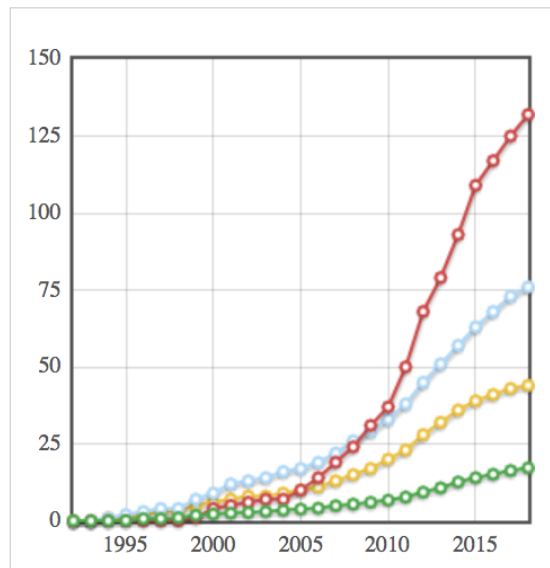
- Refereed
- Not Refereed

Citations per year



- Ref. citations to ref. papers
- Ref. citations to non ref. papers
- Non ref. citations to ref. papers
- Non ref. citations to non ref. papers

Indices



- h-index
- g-index
- i10-index
- tori-index

Publications in Refereed Journals:

- [1] J. D. Monnier, S. Kraus, M. J. Ireland, F. Baron, A. Bayo, J.-P. Berger, M. Creech-Eakman, R. Dong, G. Duchêne, C. Espaillat, C. Haniff, S. Hönig, A. Isella, A. Juhasz, L. Labadie, S. Lacour, S. Leifer, A. Merand, E. Michael, S. Minardi, C. Mordasini, D. Mozurkewich, J. Olofsson, C. Paladini, R. Petrov, J.-U. Pott, S. Ridgway, S. Rinehart, K. Stassun, J. Surdej, T. t. Brummelaar, N. Turner, P. Tuthill, K. Vahala, G. van Belle, G. Vasisht, E. Wishnow, J. Young, and Z. Zhu. The planet formation imager. *Experimental Astronomy*, July 2018.
- [2] J. D. Monnier, J.-B. Le Bouquin, N. Anugu, S. Kraus, B. R. Setterholm, J. Ennis, C. Lanthermann, L. Jocou, and T. A. ten Brummelaar. MYSTIC: Michigan Young STar Imager at CHARA. *ArXiv e-prints*, July 2018.
- [3] N. Anugu, J.-B. Le Bouquin, J. D. Monnier, S. Kraus, J. Ennis, C. Lanthermann, B. R. Setterholm, C. L. Davies, T. A. ten Brummelaar, M. Haidar, V. Dubravec, and S. Peters. MIRC-X/CHARA: sensitivity improvements with an ultra-low noise SAPHIRA detector. *ArXiv e-prints*, July 2018.
- [4] S. Kraus, J. D. Monnier, N. Anugu, J.-B. Le Bouquin, C. L. Davies, J. Ennis, A. Labdon, C. Lanthermann, B. Setterholm, and T. A. ten Brummelaar. The MIRC-X 6-telescope imager: Key science drivers, instrument design and operation. *ArXiv e-prints*, July 2018.
- [5] G. H. Schaefer, R. J. White, E. K. Baines, T. S. Boyajian, T. A. ten Brummelaar, C. D. Farrington, J. Sturmman, L. Sturmman, and N. H. Turner. AB Dor Moving Group Stars Resolved with the CHARA Array. *ApJ*, 858:71, May 2018.
- [6] J. Kluska, S. Kraus, C. L. Davies, T. Harries, M. Willson, J. D. Monnier, A. Aarnio, F. Baron, R. Millan-Gabet, T. A. Ten Brummelaar, X. Che, S. Hinkley, T. Preibisch, J. Sturmman, L. Sturmman, and Y. Touhami. A Multi-instrument and Multi-wavelength High Angular Resolution Study of MWC 614: Quantum Heated Particles Inside the Disk Cavity. *ApJ*, 855:44, March 2018.
- [7] T. Gardner, J. D. Monnier, F. C. Fekel, M. Williamson, D. K. Duncan, T. R. White, M. Ireland, F. C. Adams, T. Barman, F. Baron, T. A. ten Brummelaar, X. Che, D. Huber, S. Kraus, R. M. Roettenbacher, G. Schaefer, J. Sturmman, L. Sturmman, S. J. Swihart, and M. Zhao. Precision Orbit of δ Delphini and Prospects for Astrometric Detection of Exoplanets. *ApJ*, 855:1, March 2018.
- [8] P. D. Nuñez, N. J. Scott, B. Mennesson, O. Absil, J.-C. Augereau, G. Bryden, T. A. ten Brummelaar, S. Ertel, V. Coudé du Foresto, S. T. Ridgway, J. Sturmman, L. Sturmman, N. J. Turner, and N. H. Turner. A near-infrared interferometric survey of debris-disc stars. VI. Extending the exozodiacal light survey with CHARA/JouFLU. *A&A*, 608:A113, December 2017.
- [9] R. M. Roettenbacher, J. D. Monnier, H. Korhonen, R. O. Harmon, F. Baron, T. Hackman, G. W. Henry, G. H. Schaefer, K. G. Strassmeier, M. Weber, and T. A. ten

- Brummelaar. Contemporaneous Imaging Comparisons of the Spotted Giant σ Geminorum Using Interferometric, Spectroscopic, and Photometric Data. *ApJ*, 849:120, November 2017.
- [10] T. S. Boyajian, K. von Braun, G. van Belle, H. A. McAlister, T. A. ten Brummelaar, S. R. Kane, P. Muirhead, J. Jones, R. White, G. Schaefer, D. Ciardi, T. Henry, M. López-Morales, S. Ridgway, D. Gies, W.-C. Jao, B. Rojas-Ayala, J. R. Parks, L. Sturmann, J. Sturmann, N. H. Turner, C. Farrington, P. J. Goldfinger, and D. H. Berger. Erratum: Stellar Diameters and Temperatures. II. Main-sequence K- and M-stars (ja href="http://https://doi.org/10.1088/0004-637x/757/2/112" ;2012, apj, 757, 112;aj). *ApJ*, 845:178, August 2017.
- [11] C. A. Hummel, J. D. Monnier, R. M. Roettenbacher, G. Torres, G. W. Henry, H. Korhonen, A. Beasley, G. H. Schaefer, N. H. Turner, T. A. Ten Brummelaar, C. D. Farrington, J. Sturmann, L. Sturmann, F. Baron, and S. Kraus. Orbital Elements and Stellar Parameters of the Active Binary UX Arietis. *ApJ*, 844:115, August 2017.
- [12] A. Chiavassa, R. Norris, M. Montargès, R. Ligi, L. Fossati, L. Bigot, F. Baron, P. Kervella, J. D. Monnier, D. Mourard, N. Nardetto, G. Perrin, G. H. Schaefer, T. A. ten Brummelaar, Z. Magic, R. Collet, and M. Asplund. Asymmetries on red giant branch surfaces from CHARA/MIRC optical interferometry. *A&A*, 600:L2, April 2017.
- [13] G. H. Schaefer, C. A. Hummel, D. R. Gies, R. T. Zavala, J. D. Monnier, F. M. Walter, N. H. Turner, F. Baron, T. A. Ten Brummelaar, X. Che, C. D. Farrington, S. Kraus, J. Sturmann, and L. Sturmann. VizieR Online Data Catalog: Interferometry and spectroscopy of sigma Orionis (Schaefer+, 2016). *VizieR Online Data Catalog*, 515, March 2017.
- [14] P. Stee, F. Allard, M. Benisty, L. Bigot, N. Blind, H. Boffin, M. Borges Fernandes, A. Carciofi, A. Chiavassa, O. Creevey, P. Cruzalebes, W.-J. de Wit, A. Domiciano de Souza, M. Elvis, N. Fabas, D. Faes, A. Gallenne, C. Guerrero Pena, M. Hillen, S. Hoenig, M. Ireland, P. Kervella, M. Kishimoto, N. Kostogryz, S. Kraus, A. Labeyrie, J.-B. Le Bouquin, A. Lebre, R. Ligi, A. Marconi, T. Marsh, A. Meilland, F. Millour, J. Monnier, D. Mourard, N. Nardetto, K. Ohnaka, C. Paladini, K. Perraut, G. Perrin, P. Petit, R. Petrov, S. Rakshit, G. Schaefer, J. Schneider, D. Shulyak, M. Simon, F. Soulez, D. Steeghs, I. Tallon-Bosc, M. Tallon, T. A. ten Brummelaar, E. Thiebaut, F. Thévenin, H. Van Winckel, M. Wittkowski, and J. Zorec. Science cases for a visible interferometer. *ArXiv e-prints*, March 2017.
- [15] P. D. Nuñez, T. A. ten Brummelaar, B. Mennesson, and N. J. Scott. Visibility Estimation for the CHARA/JouFLU Exozodi Survey. *PASP*, 129(2):024002, February 2017.
- [16] P. Darré, R. Baudoin, J.-T. Gomes, N. J. Scott, L. Delage, L. Grossard, J. Sturmann, C. Farrington, F. Reynaud, and T. A. T. Brummelaar. First On-Sky Fringes with an Up-Conversion Interferometer Tested on a Telescope Array. *Physical Review Letters*, 117(23):233902, December 2016.
- [17] G. H. Schaefer, C. A. Hummel, D. R. Gies, R. T. Zavala, J. D. Monnier, F. M. Walter, N. H. Turner, F. Baron, T. A. ten Brummelaar, X. Che, C. D. Farrington, S. Kraus,

- J. Sturmann, and L. Sturmann. Orbits, Distance, and Stellar Masses of the Massive Triple Star σ Orionis. *AJ*, 152:213, December 2016.
- [18] R. Ligi, O. Creevey, D. Mourard, A. Crida, A.-M. Lagrange, N. Nardetto, K. Perraut, M. Schultheis, I. Tallon-Bosc, and T. A. Ten Brummelaar. VizieR Online Data Catalog: Exoplanetary parameters for 18 bright stars (Ligi+, 2016). *VizieR Online Data Catalog*, 358, November 2016.
- [19] K. Perraut, C. Dougados, G. H. R. A. Lima, M. Benisty, D. Mourard, R. Ligi, N. Nardetto, I. Tallon-Bosc, T. A. ten Brummelaar, and C. Farrington. A disk wind in AB Aurigae traced with H α interferometry. *A&A*, 596:A17, November 2016.
- [20] A. Gallenne, A. Mérand, P. Kervella, J. D. Monnier, G. H. Schaefer, R. M. Roettenbacher, W. Gieren, G. Pietrzyński, H. McAlister, T. A. ten Brummelaar, J. Sturmann, L. Sturmann, N. Turner, and R. I. Anderson. Multiplicity of Galactic Cepheids from long-baseline interferometry - III. Sub-percent limits on the relative brightness of a close companion of δ Cephei. *MNRAS*, 461:1451–1456, September 2016.
- [21] R. Baudoin, P. Darré, J.-T. Gomes, M. Fabert, L. Grossard, L. Delage, F. Reynaud, N. J. Scott, J. Sturmann, T. A. Ten Brummelaar, and V. Coudé Du Foresto. ALOHA 1.55 μ m Implementation on the CHARA Telescope Array: On-Sky Sensitivity Tests. *Journal of Astronomical Instrumentation*, 5:1650006, September 2016.
- [22] N. Nardetto, A. Mérand, D. Mourard, J. Storm, W. Gieren, P. Fouqué, A. Gallenne, D. Graczyk, P. Kervella, H. Neilson, G. Pietrzyński, B. Pilecki, J. Breifelder, P. Berio, M. Challouf, J.-M. Clausse, R. Ligi, P. Mathias, A. Meilland, K. Perraut, E. Poretti, M. Rainer, A. Spang, P. Stee, I. Tallon-Bosc, and T. A. ten Brummelaar. VEGA/CHARA interferometric observations of Cepheids. I. A resolved structure around the prototype classical Cepheid δ Cep in the visible spectral range. *A&A*, 593:A45, September 2016.
- [23] N. Nardetto, A. Merand, D. Mourard, J. Storm, W. Gieren, P. Fouque, A. Gallenne, D. Graczyk, P. Kervella, H. Neilson, G. Pietrzyński, B. Pilecki, J. Breifelder, P. Berio, M. Challouf, J.-M. Clausse, R. Ligi, P. Mathias, A. Meilland, K. Perraut, E. Poretti, M. Rainer, A. Spang, P. Stee, I. Tallon-Bosc, and T. A. Ten Brummelaar. VizieR Online Data Catalog: delta Cep VEGA/CHARA observing log (Nardetto+, 2016). *VizieR Online Data Catalog*, 359, July 2016.
- [24] T. S. Boyajian, K. von Braun, G. van Belle, C. Farrington, G. Schaefer, J. Jones, R. White, H. A. McAlister, T. A. Ten Brummelaar, S. Ridgway, D. Gies, L. Sturmann, J. Sturmann, N. H. Turner, P. J. Goldfinger, and N. Vargas. VizieR Online Data Catalog: Main-sequence A, F, G, and K stars photometry (Boyajian+, 2013). *VizieR Online Data Catalog*, 177, July 2016.
- [25] R. M. Roettenbacher, J. D. Monnier, H. Korhonen, A. N. Aarnio, F. Baron, X. Che, R. O. Harmon, Z. Kóvári, S. Kraus, G. H. Schaefer, G. Torres, M. Zhao, T. A. Ten Brummelaar, J. Sturmann, and L. Sturmann. No Sun-like dynamo on the active star ζ Andromedae from starspot asymmetry. *Nature*, 533:217–220, May 2016.
- [26] K. Perraut, I. Brandão, M. Cunha, D. Shulyak, D. Mourard, N. Nardetto, and T. A. ten Brummelaar. The fundamental parameters of the roAp star HD 24712. A rapidly oscillating star at the red edge of the instability strip. *A&A*, 590:A117, May 2016.

- [27] B. D. Mason, Y. Balega, J. Docobo, F. Arenou, M. Scardia, V. Tamazian, T. A. Ten Brummelaar, P. Lampens, B. Reipurth, and A. Tokovinin. Division G Commission 26: Double and Multiple Stars. *Transactions of the International Astronomical Union, Series A*, 29:388–412, April 2016.
- [28] R. Ligi, O. Creevey, D. Mourard, A. Crida, A.-M. Lagrange, N. Nardetto, K. Perraut, M. Schultheis, I. Tallon-Bosc, and T. A. ten Brummelaar. Radii, masses, and ages of 18 bright stars using interferometry and new estimations of exoplanetary parameters. *A&A*, 586:A94, February 2016.
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August 8, 2018

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