

DR. LOUISE BREUVAL

lbreuval@stsci.edu \diamond lbreuval.github.io

CURRENT POSITION

European Space Agency Research Fellow
Space Telescope Science Institute, Baltimore, MD, USA

Jan 2025 - ...

RESEARCH EXPERIENCE

Postdoctoral Fellow
Johns Hopkins University, Baltimore, MD, USA
Advisor: Adam G. Riess

Jan 2022 - Dec 2024

EDUCATION

Observatoire de Paris, LESIA, France
PhD in Astronomy
Thesis: The Cepheid distance scale: from the local Gaia calibration to distant galaxies ([link](#))
Advisor: Pierre Kervella

Sept 2018 - Oct 2021

Université Paris Saclay, France
Master's Degree in Astronomy
Bachelor's Degree in Fundamental Physics

2018
2016

RESEARCH INTERESTS

Cosmology: near-universe distance ladder, local measurement of the Hubble constant
Stellar physics: Cepheid variables, metallicity effects, open clusters, red giants
Local Group: Magellanic Clouds, Magellanic Stream, distances to nearby galaxies
Techniques: photometry (HST, JWST, ground), light curve fitting, spectroscopy

COMPUTATIONAL SKILLS

Operating Systems	MacOS, Windows, Linux
Computer Languages	Python, IDL, L ^A T _E X
Observation Software	APT (HST, JWST), Aspro2 (VLTI), TUI (APO)
Astronomical Software	DS9, DrizzlePac, DAOPHOT, DOLPHOT, DRAGONS (Gemini)
Miscellaneous/Tools	MAST, CDS/VizieR

COLLABORATIONS

The H ₀ Distance Network (H0DN) Collaboration (PI: Stefano Casertano; website)	2025 - ...
The SH0ES Team (PI: Adam Riess)	2022 - ...
The Araucaria Project (PIs: Grzegorz Pietrzyński & Wolfgang Gieren; website)	2018 - 2022

ACTIVITIES FOR THE COMMUNITY

◇ Examiner for the PhD defense of Manon Bailleul – Observatoire de la Côte d’Azur	Oct 2026
◇ ESA Research Fellow Representative	2026 - 2027
◇ Examiner for the PhD defense of Garance Bras – Paris Observatory	Mar 2026
◇ Reviewer for JWST Cycle 3 Time Allocation Committee (Large Scale Structures)	2024
◇ Reviewer for Gemini and ESO/VLT proposals (40+ proposals)	2023 - ...
◇ Referee for ApJ, A&A, MNRAS (8+ papers)	2022 - ...
◇ Organizing Committee of the weekly AstroCoffee Talks, JHU	2022 - 2024
◇ Elected Student Representative at the Executive Board of Paris Observatory	2019 - 2021

HONORS / AWARDS / GRANTS

European Space Agency Research Fellowship	Jan 2025 - Dec 2027
HST Grant as PI of program GO-17520: \$81,000 Awarded by the Space Telescope Science Institute	May 2024
Nominated Young Scientist ISSI Team on the Hubble tension (PI: Gisella Clementini; website)	2021 - 2024
International Astronomical Union - Junior Member	2025 - Present

SELECTED TALKS

Space Science Workshop #18 – European Space Agency (ESA), Madrid, Spain	3 Feb 2026
Conference – <i>Stellar Variability</i> , Pune, India (invited; declined)	24 Nov 2025
Workshop – <i>Action Dark Energy</i> , Montpellier, France (invited; declined)	5 Nov 2025
WST Time-Domain Seminar – Online Talk (invited)	8 Oct 2025
CosmoVerse Seminar – COST Action, Online Talk (invited)	25 Sept 2025
Tensions in Cosmology Workshop – Corfu, Greece (invited; declined)	3 Sept 2025
AAS Meeting 246 – <i>Latest updates on the Hubble Tension</i> – Anchorage, AK, USA	11 June 2025
AAS Meeting 246 – <i>The Legacy of Henrietta Leavitt</i> – Anchorage, AK, USA	9 June 2025
Seminar – Center for Astrophysics, Harvard & Smithsonian, Boston, MA, USA	21 May 2025
ISSI Workshop – Bern, Switzerland (invited)	24 Mar 2025
Workshop – <i>Cosmology on the Steep Rise</i> , Sexten, Italy (invited)	3 Feb 2025
Seminar – ESA/ESTEC, Leiden, Netherlands (invited)	17 Dec 2024
RRL/Cep Conference – Marrakesh, Morocco (invited)	28 Nov 2024
Resolved Stellar Populations – Florence, Italy	10 Oct 2024
APS Meeting – Sacramento, CA, USA (invited)	4 Apr 2024
Seminar – Florida State University, online (invited)	11 Oct 2023
MIAPP Workshop – <i>The extragalactic distance scale</i> , Garching, Germany	3 July 2023
IAU Symposium 376 – Budapest, Hungary	17 Apr 2023
Seminar – Johns Hopkins University, Baltimore, MD, USA	27 Mar 2023
AAS Meeting 241 – <i>SHOES Special Session</i> – Seattle, WA, USA	8 Jan 2023
RRL/Cep Conference – La Palma, Spain	26 Sep 2022
Tensions in Cosmology Workshop – Corfu, Greece	7 Sep 2022
ISSI Workshop – Bern, Switzerland	4 July 2023
Hot Science Colloquium – STScI, Baltimore, MD, USA	29 June 2022
Rencontres de Blois – <i>Exploring the Dark Universe</i> – Blois, France	25 May 2022
MIAPP Workshop – <i>The Hubble Tension</i> – online (invited)	29 Sep 2021
Hypatia Colloquium – European Southern Observatory, online	8 June 2021

Seminar – Nuclear and High Energy Physics Laboratory, Paris, France (invited)	28 Sep 2020
Workshop MW-Gaia – <i>Frontiers of Stellar Physics</i> – Zagreb, Croatia	21 Jan 2020
Dark Energy Colloquium – Institut Henri Poincaré, Paris, France	20 Nov 2019
RRL/Cep Conference <i>Frontiers of Classical Pulsators</i> – Cloudcroft, NM, USA	18 Oct 2019
Cosmic Controversies Conference – Chicago, IL, USA	8 Oct 2019
Annual Meeting of the SF2A – Nice, France	15 May 2019

TEACHING

CosmoVerse School, Sofia, Bulgaria	
◊ <i>Cepheid variables in the distance ladder</i> , Invited Lecture	May 2026
CosmoVerse Lecture At Your Desk – Online	
◊ <i>Cepheid variables in the distance ladder</i> , Invited Lecture	April 2025
International Spring School, Konkoly Observatory, Budapest, Hungary	
◊ <i>Modern methods of cosmic distance determination</i> , Lecture	April 2023
Paris Doctoral School in Astrophysics (ED 127), France	
◊ <i>The Expanding Universe</i> , Invited Lecture	May 2022
Paris Sciences et Lettres University, France	
◊ Supervision of a Master Student, Lab Insertion Unit	Sept 2020 - Dec 2020
◊ Optics, 1st year of Physics Degree	Sept 2019 - Jun 2021
◊ Introduction to Astronomy, 1st and 2nd year of Physics Degree	Sept 2019 - Jun 2021
◊ Astronomical observations, practical sessions, 1st year of Physics Degree	Sept 2019 - Jun 2020

OBSERVING TIME AWARDED (AS PI)

HST Cycle 31, GO-17520 – 42 orbits	2024
<i>A 1% cross-calibration of Cepheids, TRGB, and JAGB in five nearby galaxies with HST</i>	
Gemini GMOS-S – 5.3 hours	2024 - 2025
Programs: GS-2024B-DD-102, GS-2024B-FT-106, GS-2024B-FT-109, GS-2025A-Q-124	
<i>Cepheid Light Curves in Nearby Galaxies: Gemini and HST jointly test the Hubble Tension</i>	
Apache Point Observatory, ARCES – 4 half nights (Q2, Q3)	2022
<i>Chemical abundances of Galactic Cepheids to reduce systematics in the distance scale</i>	

OBSERVING TIME AWARDED (AS CO-I)

HST Cycle 32, GO-17915 (co-I) – 25 orbits (PI: A. Riess)	2025
<i>Completing the HST + Gaia Reference Sample to Optimize the H_0 Measurement</i>	
HST Cycle 32, GO-17743 (co-I) – 28 orbits (PI: A. Riess)	2024
<i>Which dust is it? Unveiling Cosmic Mysteries by Redefining Dust and Distance in the Universe</i>	
Keck/LRIS (co-I) – 1 half night (PI: Y. Murakami)	2024
<i>Dusty Deep Universe</i>	
Magellan/IMACS (co-I) – 1 half night (PI: Y. Murakami)	2024
<i>Dusty Deep Universe</i>	
Apache Point Observatory, ARCES (co-I) – 1 half night (PI: S. Li)	2024
<i>Towards a Standardization of the J-region Asymptotic Giant Branch</i>	

JWST Cycle 2, GO-4087 (co-I) – 2.9 hours (PI: C. Huang) <i>Refining the Mira Distance Ladder with NIRC<i>am</i> Observations of M101</i>	2023
JWST Cycle 2, GO-2875 (co-I) – 16 hours (PI: A. Riess) <i>Scrutinizing the Dirtiest Cepheids, a Test of the Hubble Tension</i>	2023
HST Cycle 30, GO-17097 (co-I) – 15 orbits (PI: A. Riess) <i>Reinforcing the Distance Ladder with Cepheids in the Core of the SMC</i>	2022
HST Cycle 30, SNAP-17098 (co-I) – 140 orbits (PI: A. Riess) <i>HST and Gaia, with Light and Distances, a Foundational Legacy of the Distance Ladder</i>	2022
HST Cycle 29, GO-16676 (co-I) – 10 orbits (PI: A. Riess) <i>A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal the Origin of the Hubble Tension</i>	2021
JWST Cycle 1, GO-1685 (co-I) – 25.5 hours (PI: A. Riess) <i>Uncrowding the Cepheids for an Improved Determination of the Hubble Constant</i>	2021
ESO VLTI/PIONIER (co-I) – program 0103.D-0711 (PI: B. Trahin) <i>IR interferometry to measure angular diameter of Cepheid variables</i>	2020

OBSERVATIONS: OTHERS

Cerro Murphy Observatory, Chile (website) – 40 nights in visitor mode <i>Photometry of Cepheid and RR Lyrae variables – Survey by the Araucaria Project</i>	2018 - 2020
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OUTREACH

Public Observatory Night – Henrietta Leavitt Edition (Harvard & Smithsonian, CfA)	May 2025
Educational projects with primary schools (Paris, France – 3 projects/yr)	2019 - 2021
Member of the French Association <i>Femmes & Sciences</i> that promotes science to women	2019 - 2022

MEDIA COVERAGE

<i>"Celebrating Women's History Month"</i> , From the Harvard Plate Stacks (link)	Mar 2025
<i>"Looking Ahead as We Look Far Through the JWST"</i> , Astrobites at APS (link)	Apr 2024
<i>"La cosmologie en crise ?! Hubble sous tension"</i> , Science Etonnante (YouTube, link)	Feb 2022
<i>"L'expansion qui gonfle les astrophysiciens"</i> , Sciences & Vie Junior (link)	July 2022
<i>"Constante de Hubble: une estimation plus précise grâce à Gaia"</i> , Pour La Science (link)	Jan 2021
<i>"Expansion de l'univers: rien ne va plus !"</i> , Sciences & Vie (link)	Dec 2020

LANGUAGES

French (native), **English** (fluent), **Spanish** (fluent), **German** (intermediate)

PUBLICATION SUMMARY

[NASA/ADS Link to First Author Publications](#)

[NASA/ADS Link to All Publications](#)

32 Refereed Publications (7 as first author) – 4,091 Citations (385 as first author)

Last updated: 28 May 2026

REFEREED PUBLICATIONS

FIRST AUTHOR (7 PAPERS)

[7] **Breuval, L.**, Anand, G. S., Anderson, R. I., Beaton, R., Bhardwaj, A., Casertano, S., Clementini, G., Cruz Reyes, M., De Somma, G., Groenewegen, M. A. T., Huang, C. D., Kervella, P., Khan, S., Macri, L. M., Marconi, M., Minniti, J. H., Riess, A. G., Ripepi, V., Romaniello, M., Scolnic, D., Trentin, E., Wielgorski, P., Yuan, W., *Converging on the Cepheid Metallicity Dependence: Implications of Non-Standard Gaia Parallax Recalibration on Distance Measures*, [ApJ 994, 111 \(2025\)](#)

[6] **Breuval, L.**, Huang, C. D., Riess, A. G., *The Legacy of Henrietta Leavitt: A Re-analysis of the First Cepheid Period–Luminosity Relation*, [PASP 137, 4, 044001 \(2025\)](#)

[5] **Breuval, L.**, Riess, A. G., Casertano, S., Yuan, W., Macri, L. M., Romaniello, M., Murakami, Y. S., Scolnic, D., Anand, G. S., Soszyński, I., *Small Magellanic Cloud Cepheids Observed with the Hubble Space Telescope Provide a New Anchor for the SH0ES Distance Ladder*, [ApJ 973, 30 \(2024\)](#)

[4] **Breuval, L.**, Riess, A. G., Macri, L. M., Li, S., Yuan, W., Casertano, S., Konchady, T., Trahin, B., Durbin, M. J., Williams, B. F., *A 1.3% Distance to M33 from Hubble Space Telescope Cepheid Photometry*, [ApJ 951, 118 \(2023\)](#)

[3] **Breuval, L.**, Riess A. G., Kervella P., Anderson R. I., Romaniello M., *An Improved Calibration of the Wavelength Dependence of Metallicity on the Cepheid Leavitt law*, [ApJ 939, 89 \(2022\)](#)

[2] **Breuval, L.**, Kervella, P., Wielgórski, P., Gieren, W., Graczyk, D., Trahin, B., Pietrzyński, G., Arenou, F., Javanmardi, B., Zgirski, B., *The influence of metallicity on the Leavitt law from geometrical distances of Milky Way and Magellanic Cloud Cepheids*, [ApJ 913, 38 \(2021\)](#)

[1] **Breuval, L.**, Kervella, P., Anderson, R. I., Riess, A. G., Arenou, F., Trahin, B., Mérand, A., Gallenne, A., Gieren, W., Storm, J., Bono, G., Pietrzyński, G., Nardetto, N., Javanmardi, B., Hocdé, V., *The Milky Way Cepheid Leavitt law based on Gaia DR2 parallaxes of companion stars and host open cluster populations*, [A&A 643, A115 \(2020\)](#)

SECOND AUTHOR (2 PAPERS)

[2] Riess, A. G., **Breuval, L.**, Yuan, W., Casertano, S., Macri, L. M., Bowers, J. B., Scolnic, D., Cantat-Gaudin, T., Anderson, R. I., Cruz-Reyes, M., *Cluster Cepheids with High Precision Gaia Parallaxes, Low Zeropoint Uncertainties, and Hubble Space Telescope Photometry*, [ApJ, 938, 36 \(2022\)](#)

[1] Trahin, B., **Breuval, L.**, Kervella, P., Mérand, A., Nardetto, N., Gallenne, A., Hocdé, V., Gieren, W., *Inspecting the Cepheid parallax-of-pulsation using Gaia EDR3 parallaxes*, [A&A 656, A102 \(2021\)](#)

CO-AUTHOR (23 PAPERS)

- [23] Hოდé, V., Moskalik, P., Nardetto, N., Kervella, P., Pilecki, B., Smolec, R., Pietrzyński, G., Gieren, W., Hajdu, G., Gallenne, A., Bailleul, M. C., Bras, G., Wielgórski, P., **Breuval, L.**, Mérand, A., Rathour, R. S., Espinoza-Arancibia, F., Kiviaho, W., Apostolova, B., Sivkova, K., *Reconstruction of Cepheid radial velocity curves from the shape of the V-band light curves*, [A&A 709 151 \(2026\)](#)
- [22] H0DN Collaboration, Casertano, S., Anand, G. S., Anderson, R. I., Beaton, R., Bhardwaj, A., Blakeslee, J. P., Boubel, P., **Breuval, L.**, Brout, D., Cantiello, M., Cruz Reyes, M., Csörnyei, G., de Jaeger, T., Dhawan, S., Di Valentino, E., Galbany, L., Gil-Marín, H., Graczyk, D., Huang, C. D., Jensen, J. B., Kervella, P., Leibundgut, B., Lengen, B., Li, S., Macri, L., Özülker, E., Pesce, D. W., Riess, A. G., Romaniello, M., Said, K., Schöneberg, N., Scolnic, D., Sicignano, T., Skowron, D. M., Uddin, S. A., Verde, L., Nota, A., *The Local Distance Network: A community consensus report on the measurement of the Hubble constant at $\sim 1\%$ precision*, [A&A 708, 166 \(2026\)](#)
- [21] Bhuyan, G., Kanbur, S., Deb, S., **Breuval, L.**, Bhardwaj, A., Deka, M., Bellinger, E. P., Kurbah, K., *The effect of metallicity on the Leavitt Law using phase-dependent properties of classical Cepheids*, [MNRAS 546,1-20 \(2026\)](#)
- [20] Riess, A. G., Li, S., Anand, G. S., Yuan, W., **Breuval, L.**, Casertano, S., Macri, L. M., Scolnic, D., Murakami, Y. S., Filippenko, A. V., Brink, T. G., *The Perfect Host: JWST Cepheid Observations in a Background-Free SN Ia Host Confirm No Bias in Hubble-Constant Measurements*, [ApJ 992, 34 \(2025\)](#)
- [19] Khan, S., Anderson, R. I., Ekström, S., Georgy, C., **Breuval, L.**, *The stellar evolution perspective on the metallicity dependence of classical Cepheid Leavitt laws*, [A&A 702, 235 \(2025\)](#)
- [18] Di Valentino, E., Said, J. L., Riess, A., [+36 authors], **Breuval, L.**, [+500 authors], *The CosmoVerse White Paper: Addressing observational tensions in cosmology with systematics and fundamental physics*, [Physics of the Dark Universe, 49, 101965 \(2025\)](#)
- [17] Riess, A. G., Scolnic, D., Anand, G. S., **Breuval, L.**, Casertano, S., Macri, L. M., Li, S., Yuan, W., Huang, C. D., Jha, S., Murakami, Y. S., Beaton, R., Brout, D., Wu, T., Addison, G. E., Bennett, C., Anderson, R. I., Filippenko, A. V., Carr, A., *JWST Validates HST Distance Measurements: Selection of Supernova Subsample Explains Differences in JWST Estimates of Local H_0* , [ApJ 977, 120 \(2024\)](#)
- [16] Li, S., Anand, G. S., Riess, A. G., Casertano, S., Yuan, W., **Breuval, L.**, Macri, L. M., Scolnic, D. M., Beaton, R., Anderson, R. I., *Tip of the Red Giant Branch Distances with JWST. II. I-band Measurements in a Sample of Hosts of 10 Type Ia Supernova Match HST Cepheids*, [ApJ 976, 177 \(2024\)](#)
- [15] Li, S., Riess, A. G., Casertano, S., Anand, G. S., Scolnic, D. M., Yuan, W., **Breuval, L.**, Huang, C. D., *Reconnaissance with JWST of the J-region Asymptotic Giant Branch in Distance Ladder Galaxies: From Irregular Luminosity Functions to Approximation of the Hubble Constant*, [ApJ 966, 20 \(2024\)](#)

- [14] Anand, G. S., Riess, A. G., Yuan, W., Beaton, R., Casertano, S., Li, S., Makarov, D. I., Makarova, L. N., Tully, R. B., Anderson, R. I., **Breuval, L.**, Dolphin, A., Karachentsev, I. D., Macri, L. M., Scolnic, D., *Tip of the Red Giant Branch Distances with JWST: An Absolute Calibration in NGC 4258 and First Applications to Type Ia Supernova Hosts*, [ApJ 966, 89 \(2024\)](#)
- [13] Riess, A. G., Anand, G. S., Yuan, W., Casertano, S., Dolphin, A., Macri, L. M., **Breuval, L.**, Scolnic, D., Perrin, M., Anderson, R. I., *JWST Observations Reject Unrecognized Crowding of Cepheid Photometry as an Explanation for the Hubble Tension at 8σ Confidence*, [ApJ, 962, 17 \(2024\)](#)
- [12] Bras, G., Kervella, P., Trahin, B., Wielgórski, P., Zgirski, B., Mérand, A., Nardetto, N., Gallenne, A., Hocdé, V., **Breuval, L.**, Afanasiev, A., Pietrzyński, G., Gieren, W., *The Baade-Wesselink projection factor of RR Lyrae stars - Calibration from OHP/SOPHIE spectroscopy and Gaia DR3 parallaxes*, [A&A 684, 126 \(2024\)](#)
- [11] Riess, A. G., Anand, G. S., Yuan, W., Casertano, S., Dolphin, A., Macri, L. M., **Breuval, L.**, Scolnic, D., Perrin, M., Anderson, R. I., *Crowded No More: The Accuracy of the Hubble Constant Tested with High Resolution Observations of Cepheids by JWST*, [ApJ 956, L18 \(2023\)](#)
- [10] Evans, N. R., Engle, S., Pillitteri, I., Guinan, E., Günther, H. M., Wolk, S., Neilson, H., Marengo, M., Matthews, L. D., Moschou, S., Drake, J. J., Winston, E. M., Moe, M., Kervella, P., **Breuval, L.**, *X-rays in Cepheids: Identifying Low-Mass Companions of Intermediate-Mass Stars*, [ApJ 938, 153 \(2022\)](#)
- [9] Wielgórski, P., Pietrzyński, G., Pilecki, B., Gieren, W., Zgirski, B., Górski, M., Hajdu, G., Narloch, W., Karczmarek, P., Smolec, R., Kervella, P., Storm, J., Gallenne, A., **Breuval, L.**, Lewis, M., Kaluszyński, M., Graczyk, D., Pych, W., Suchomska, K., Taormina, M., Rojas Garcia, G., Kotek, A., Chini, R., Pozo Núñez, F., Noroozi, S., Sobrino Figaredo, C., Haas, M., Hodapp, K., Mikolajczyk, P., Kotysz, K., Moździerski, D., Kolaczek-Szymański, P., *An absolute calibration of the near-infrared Period-Luminosity Relations of Type II Cepheids in the Milky Way and in the Large Magellanic Cloud*, [ApJ 927, 89 \(2022\)](#)
- [8] Riess, A. G., Yuan, W., Macri, L. M., Scolnic, D., Brout, D., Casertano, S., Jones, D. O., Murakami, Y., Anand, G. S., **Breuval, L.**, Brink, T. G., Filippenko, A. V., Hoffmann, S., Jha, S. W., Kenworthy, D. W., Mackenty, J., Stahl, B. E., Zheng, W., *A Comprehensive Measurement of the Local Value of the Hubble Constant with $1 \text{ km s}^{-1} \text{ Mpc}^{-1}$ uncertainty from the Hubble Space Telescope and the SH0ES team*, [ApJL 934, 7 \(2022\)](#)
- [7] Gallenne, A., Mérand, A., Kervella, P., Pietrzyński, G., Gieren, W., Hocdé, V., **Breuval, L.**, Nardetto, N., Lagadec, E., *Extended envelopes around Galactic Cepheids. V. Multi-wavelength and time- dependent analysis of IR excess*, [A&A 651, A113 \(2021\)](#)
- [6] Javanmardi, B., Mérand, A., Kervella, P., **Breuval, L.**, Gallenne, A., Nardetto, N., Gieren, W., Pietrzyński, G., Hocdé, V., Borgniet, S., *Inspecting the Cepheid distance ladder: The Hubble Space Telescope distance to SNIa host galaxy NGC 5584*, [ApJ 911, 12 \(2021\)](#)

- [5] Hocdé V., Nardetto, N., Matter, A., Lagadec, E., [+50 authors], **Breuval, L.**, [+99 authors], *Mid-infrared circumstellar emission of the long-period Cepheid ι Carinae resolved with VLTI/ MATISSE*, [A&A 651, A92 \(2021\)](#)
- [4] Hocdé, V., Nardetto, N., Borgniet, S., Lagadec, E., Kervella, P., Mérand, A., Evans, N., Gillet, D., Mathias, Ph., Chiavassa, A., Gallenne, A., **Breuval, L.**, Javanmardi, B., *Pulsating chromosphere of classical Cepheids. Calcium infrared triplet and $H\alpha$ profile variations*, [A&A 641, A74 \(2020\)](#)
- [3] Hocdé, V., Nardetto, N., Lagadec, E., Niccolini, G., Domiciano de Souza, A., Mérand, A., Kervella, P., Gallenne, A., Marengo, M., Trahin, B., Gieren, W., Pietrzyński, G., Borgniet, S., **Breuval, L.**, Javanmardi, B., *A thin shell of ionized gas as the explanation of infrared excess among classical Cepheids*, [A&A 633, A47 \(2020\)](#)
- [2] Borgniet, S., Kervella, P., Nardetto, N., Gallenne, A., Mérand, A., Anderson, R.I., Aufdenberg, J., **Breuval, L.**, Gieren W., Hocdé V., Javanmardi B., Lagadec E., Pietrzyński G., Trahin B., *Consistent radial velocities of classical Cepheids from the cross-correlation technique*, [A&A 613, A37 \(2019\)](#)
- [1] Graczyk, D., Pietrzyński, G., Gieren, W., Storm, J., Nardetto, N., Gallenne, A., Maxted, P. F. L., Kervella, P., Kołaczowski, Z., Konorski, P., Pilecki, B., Zgirski, B., Górski, M., Suchomska, K., Karczmarek, P., Taormina, M., Wielgórski, P., Narloch, W., Smolec, R., Chini, R., **Breuval, L.**, *Testing systematics of Gaia DR2 parallaxes with empirical surface brightness: color relations applied to eclipsing binaries*, [ApJ 872, 85 \(2019\)](#)

Last updated: 28 May 2026