

JORDAN B. S. VAN BEECK

Asteroseismology | Stellar Astrophysics | FOSS



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SCIENTIFIC EDUCATION

Ph.D., Astronomy & Astrophysics, KU Leuven (Belgium), September 2023

Asteroseismology of Kepler B stars: internal magnetism and non-linear mode coupling

Promoters: Prof. Dr. C. Aerts, Prof. Dr. T. Van Hoolst, Prof. Dr. D. M. Bowman [\(thesis download link\)](#)

M.Sc., Astronomy & Astrophysics, KU Leuven (Belgium), July 2019 – *Magna Cum Laude*

The influence of an interior magnetic field on gravity-mode oscillations of intermediate-mass stars

Promoters: Prof. Dr. C. Aerts, Dr. T. Van Reeth, Prof. Dr. D. M. Bowman [\(thesis download link\)](#)

M.Sc., Chemistry, University of Antwerp (Belgium), September 2017 – *Magna Cum Laude*

Characterization of radioactive particles

Promoters: Prof. Dr. K. Janssens, Prof. Dr. B. Salbu, Prof. Dr. O.-C. Lind, M.Sc. G. Nuyts

B.Sc., Chemistry, University of Antwerp (Belgium), September 2015 – *Magna Cum Laude*

Atomic scale reactive MD studies of DNA oxidation for plasma oncology: the role of H₂O₂ and HO₂

Promoters: Prof. Dr. A. Bogaerts, Prof. Dr. E. Neyts, Dr. C. Verlaet

EMPLOYMENT

KU Leuven, Department of Physics and Astronomy, Institute of Astronomy, Leuven, Belgium

Research Associate, Asteroseismology, September 2023 – December 2023

Project: non-linear asteroseismic modeling of slowly pulsating B stars

Funded by the European Union (ERC, 4D-STAR, N^o 101071505). Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Research Council Executive Agency. Neither the European Union nor the granting authority can be held responsible for them.



AWARDS AND FELLOWSHIPS

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|-------------|--|
| 2021 - 2022 | FWO (Research Foundation Flanders) long research stay grant (€12 738) for a stay as a VSR at TAPIR, Caltech, CA, USA with Prof. Dr. J. Fuller. |
| 2019 - 2023 | 4-year PhD Fellowship, Department of Physics & Astronomy, KU Leuven |
| 2019 | Paul Smeyers Prize, KU Leuven
Awarded to the annual best master's thesis in Astronomy & Astrophysics at the June examination session. |

TEACHING EXPERIENCE

Teaching Assistant, Department of Physics & Astronomy, KU Leuven

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|-------------|---|
| 2022 - 2023 | K01B4A: 'Natuurkunde met elementen van wiskunde' I (taught in Dutch)
(Introductory physics course for the first-year students in the B.Sc. of pharmaceutical sciences) |
| 2019 - 2021 | K01B4A B: 'Natuurkunde met elementen van wiskunde' I II (taught in Dutch)
English translation of course title: 'Physics with elements of mathematics' I II
(Introductory physics courses for the first-year students in the B.Sc. of pharmaceutical sciences) |

VISITING RESEARCH POSITIONS (ABRIDGED)

11/2021 - 06/2022	<p><i>Visiting Student Researcher (VSR) at TAPIR, Caltech, CA, USA</i></p> <p>Project goal: development of computational tools that aid in explaining oscillation mode amplitude limitation in slowly pulsating B stars</p> <p>Mentor: Prof. Dr. J. Fuller <i>Funding: FWO long research stay grant</i></p>
11/2021 - 12/2021	<p><i>Transport in Stellar Interiors Program Affiliate (workshop, conference) at KITP, UC Santa Barbara, CA, USA</i></p> <p>Mentor: Prof. Dr. L. Bildsten <i>Funding: FWO long research stay grant</i></p>

SEMINARS/CONFERENCE PRESENTATIONS (ABRIDGED)

March 2023	<p>GOOD VIBRATIONS SEMINAR (https://youtu.be/dWaEkri_s2I?feature=shared)</p> <p>The Good Vibrations seminar series, S3E8.</p>
February 2023	<p>AD-VALVAS SEMINAR (https://youtu.be/nTWZoLCMa_g?feature=shared)</p> <p>Ad-valvas seminar of the Institute of Astronomy, KU Leuven, Belgium.</p>
July 2022	<p>POSTER PRESENTATION (additional info: doi:10.5281/zenodo.6814504)</p> <p>TASC6 / KASC13 workshop/conference at KU Leuven, Belgium.</p>
November 2021	<p>CONTRIBUTED TALK (doi:10.26081/K6VH15)</p> <p>Transfer in Stellar Interiors conference (part of the Probes of Transport in Stars program), KITP, UC Santa Barbara, CA, USA.</p>
July 2020	<p>CONTRIBUTED TALK (doi:10.5281/zenodo.5525346)</p> <p>MOBSTER-1 Virtual conference 2020: Stellar variability as a probe of magnetic fields in massive stars (online, hosted by University of Delaware, DE, USA)</p>

PROFESSIONAL ACTIVITIES

Conference organization

July 2022 Member of the Local Organizing Committee
TASC6 / KASC13 workshop/conference in Leuven, Belgium

Professionally associated as

Fellow (Graduate Student)

2022 *Royal Astronomical Society (RAS)*

Graduate Student Member

2020 - 2022 *American Astronomical Society (AAS)*

2020 - 2022 *Royal Netherlands Astronomical Society (KNA)*

2019 - 2023 *International Research Network for Nuclear Astrophysics (IReNA)*

DIGITAL PROFICIENCY

