

INVITED TALKS, LECTURES, SEMINARS

limited to 2014 to 2023

- ChETEC-INFRA review meeting (science highlight talk), March 2023
Talk title: “Standard Composition of the Sun”
- General Physics Colloquium at the University of Duisburg-Essen, January 2023
Talk title: “Physics of light-matter interaction in stars”
- Workshop "Investigating the roots: How our perception of the Milky Way System is shaped by our knowledge of atomic data products", ZAH/ARI, Heidelberg, Germany, October 2022 (invited talk)
Talk title: “Metal abundances in cool stars”
- Workshop “Stellar evolution along the HR diagram with Gaia”, MW-Gaia WG2/1 Hybrid workshop, September 2022 (invited talk)
Talk title: “4MOST revolution and synergies with Gaia”
- IAU General Assembly, IAUS 371 “Honoring Charlotte Moore Sitterly: Astronomical spectroscopy in the 21st century”, South Korea, August 2022 (keynote talk)
Talk title: “Lab astrophysics informed by observations of the Sun and stars”
- PLATO WP122 Workshop, Liege, April 2022 (invited talk)
Talk title: “Spectroscopic surveys and PLATO”
- Public talk at the House of Astronomy Heidelberg, Vortragsreihe "Faszination Astronomie Online“, March 1, 2022
Talk title: “Was Sie schon immer über Sterne wissen wollten, aber nicht zu fragen wagten” (Vortrag auf Deutsch, auch auf Youtube)
- StarPlan seminar, Centre for Star and Planet Formation, University of Copenhagen, November 29, 2021
Talk title: “Chemical Composition of the Sun”
- NBIA Colloquium, Niels Bohr Institute, University of Copenhagen, November 12, 2021
Talk title: “All you wanted to know about stars but were afraid to ask”
- PLATO mission conference, October 11-15, 2021 (invited talk)
Talk title: “Non-seismic (and Non-LTE) stellar parameters for the PLATO core sample”
- “The Frontiers of Physics. News from the Niels Bohr Academy”
University of Copenhagen, October 26, 2021 (lectures)
- Solvay New Horizon Lecture series at Free University of Brussels (ULB), University of Liège, October 18-22, 2021 (lectures)

- Origin of the Isotopes Workshop, September 28 and 30, 2021 (invited talk)
Talk title: "Making sense of chemical fingerprints in stellar spectra: the devil is in the details"
- Annual meeting of the Astronomical Society of Australia (ASA), July 2021 (plenary talk)
Talk title: "Role of extreme events in Galaxy evolution"
- Lund Reference Star Workshop, March – April 2021 (invited talk)
Talk title: "Reference stars for 4MOST S4 survey and PLATO SAPP pipeline"
- PLATO WP120 Hands-On Workshop: Stellar Analysis Pipeline: architecture, workflow, dataflow, November 2020 (invited talk)
Talk title: "SAPP pipeline for PLATO"
- iSIMBA Seminar at the Stellar Astrophysics Center, Aarhus University, October 2020 (seminar)
Talk title: "Constraints on the nature of thermonuclear supernovae from the chemical composition of Galactic stars"
- 15. Cosmology meeting, Centre for Interdisciplinary Research, Bielefeld University, May 2020 (invited talk)
Talk title: "Chemical evolution of the Milky Way and its implications for the nature of SN Ia"
- Workshop „Future Directions in Solar, Stellar and Planetary Physics“, Abu Dhabi, January 2020 (invited talk)
Talk title: "Solar and stellar abundances in 3D Non-LTE"
- PLATO Stellar Science Workshop III, Barcelona, Spain, November 2019 (invited talk)
Talk title: "Overview of pipeline for determination of classical stellar parameters"
- Colloquium at the University Observatory at Ludwig Maximilians University, Munich, December 2019
Talk title: "Reading physics from stellar spectra"
- Conference „The Milky Way 2019: LAMOST and Other Leading Surveys“, Yichang, China, October 2019 (invited talk, had to cancel for family reasons)
Talk title: "4MOST overview and the interpretation of spectra/derivation of stellar parameters"
- Annual meeting of German Astronomical Society, Splinter session, Stuttgart, Germany, September 2019 (invited talk, had to cancel)
Talk title: "New challenges in the spectroscopic analysis of cool stars"
- Heidelberg Joint Astronomical Colloquium, Heidelberg, July, 2019
- Workshop „The Radiating Universe in the Era of Multi-Messenger Astrophysics“, Shanghai, China, May 2019 (invited talk, declined for family reasons)

- Lagrange Seminar, Nice Observatory, Nice, France, May 2019
- Third PLATO workshop “Non-seismic parameters and model atmospheres”, Liege, Belgium, May 2019 (invited talk)
Talk title: “Stellar atmospheric models and spectral synthesis”
- Conference “MOSAIC2019: Science and surveys with the ELT multi-object spectrograph”, Heidelberg, Germany, March 2019 (invited talk)
Talk title: “Non-LTE spectroscopic analyses”
- Conference „Galactic Archaeology in the Gaia Era”, Sesto, Italy, January 2019
Talk title: “Chemical evolution of Fe-group elements in the Galaxy and in dwarf Spheroidal systems” (invited talk)
- Conference „Weighing Stellar Masses“, Leiden, Netherlands, November 2018
Talk title: „Spectroscopic masses and the connection of spectroscopy to other mass determination methods” (invited talk)
- Conference „A revolution in stellar physics with Gaia and large surveys”, Warsaw, Poland, September, 2018 (invited talk)
Talk title: „Limits and prospects of spectroscopic stellar abundances and parameters”
- American Astronomy Society meeting, session „Stellar Abundances in Dwarf Galaxies”, Denver, USA, June 2018 (invited talk)
Talk title: „Towards new generation spectroscopic models of cool stars”
- Seminar at Strasbourg Observatory, Strasbourg, France, May 2018
- APOGEE meeting, Besancon, France, April 2018 (invited talk)
Talk title: „Structures in the Milky Way outer disk“
- Joint Astronomical Colloquium, Garching, March 2018
- Conference „Spectroscopic Surveys with the ELT: A Gigantic step into the deep Univers“, Toledo, Italy, October 2017 (invited talk)
Talk title: „Theoretical developments needed for current and future surveys”
- Workshop „Nuclear Astrophysics at the Dresden Felsenkeller“, Dresden, Germany, June 2017 (invited talk, had to cancel for health reasons)
Talk title: „Stars in the Galactic halo“
- XXIX Canary Islands Winter School of Astrophysics "Applications of Radiative Transfer to Stellar and Planetary Atmospheres", La Laguna, Spain, November 2017
three lectures on the topic: „Phenomenology and physics of late-type stars’
- Koenigstuhl Colloquium, Heidelberg, October, 2017

- PLATO workshop, Liege, Belgium, May 2017
Talk title: „Impact of non-LTE/3D effects on the determination of the parameters and chemical abundances for the PLATO targets“ (invited talk)
- Symposium „The Galactic Renaissance“, California Institute of Technology, USA, February 2017 (invited talk)
Talk title: „3D and NLTE Spectral Analysis: On Successes and Failures“
- Symposium „Galactic Astrophysics“, Zürich, Switzerland, March 2017
Talk title: “Fundamental stellar parameters and Galactic archaeology through precision spectroscopy of 3 million stars“ (invited talk)
- Seminar at Helmholtz Zentrum Dresden Rossendorf, Dresden, January 2017
Talk title: „Chemical abundances of the Sun and solar-like stars”
- IAU Symposium 329 „Massive Stars meeting in Auckland“, New Zealand, November 2016 (invited review talk, had to cancel for family reasons)
Talk title: “Analyses of massive supergiants”
- Munich Joint Conference “Disks in Galaxies”, Garching, July 2016 (invited talk)
Talk title: „Chemical gradients in the Milky Way and their origin”
- Meeting “Nuclear Astrophysics in Germany”, Darmstadt, Germany, November 2016 (invited talk)
Talk title: „Hyperfine structure splitting in stellar spectra and precision tests of cosmic abundances“
- Seminar at Max Planck Institute for Solar System Research (MPSS), Goettingen, November, 2016
Talk title: “High-precision spectroscopy and fundamental parameters of cool stars”
- Seminar at Rudolf Peierls Centre for Theoretical Physics, University of Oxford, October 2016
- Seminar at Astrophysics Research Institute, Liverpool John Moores University, Liverpool, October 2016
- 4MOST All-Hands meeting, Heidelberg, Germany, September 2016
Talk title: „Milky Way Disc and Bulge High-Resolution Survey”
- IAU General Assembly, Focus Meeting “*Stellar Physics in Galaxies throughout the Universe*”, August 2015, Hawaii (invited talk)
Talk Title: “Spectra of cool stars in galaxies” (had to cancel, because of problems with the passport and visa)
- International School of Astrophysics "F. Lucchin" on "Science and Technology with the E-ELT", Erice, Sicily, October 2015
two lectures on the topic “Galactic archeology”
- IAU General Assembly, Focus Meeting “*Stellar Behemoths*”, Hawaii, August 2015 (invited talk, had to cancel because of problems with the passport and visa)

Talk title: “Model atmospheres and spectroscopy of red supergiants”

- KITP conference „The Milky Way and its Stars: Stellar Astrophysics, Galactic Archaeology, and Stellar Populations”, Santa-Barbara, USA, 2015 (invited talk)
Talk title: „Stellar spectroscopy and chemical abundances“
- Annual Assembly and Fall Meeting of the Astronomische Gesellschaft, Kiel, Germany, September 2015 (invited talk)
Talk title: „Stellar parameters at high precision”
- Solarnet III / HELAS VII / SpaceInn Conference, Freiburg, September 2015 (invited review talk)
Talk title: „Chemical abundances of the Sun and solar twins“
- RDS workshop „Perspectives of Astrophysics in Germany 2015-2030“, Postdam, Germany, December 2015 (invited talk)
Talk title: „Stellar Parameters, Stellar Structure and Stellar Evolution,,
- Clusters Seminar, Astronomisches Recheninstitut, December 2014
- Koenigstuhl Colloquium, Heidelberg, November, 2014
- Ringberg workshop „Astrophysical calibration of Gaia and other surveys”, Ringberg, July 2014 (invited talk)
Talk title: „Stellar atmospheric parameters“
