

Philipp Eitner

Education

- 2021–Today **Max Planck Institute for Astronomy Heidelberg,**
PhD studies in Astronomy and Astrophysics at the University of Heidelberg,
under supervision of Dr. Maria Bergemann and Prof. Dr. Hans-Walter Rix.
- 2019–2021 **University of Heidelberg – Master of Science,**
Master studies in physics, specialisation in theoretical astrophysics and astronomy,
Max Planck Institute for Astronomy Heidelberg, under supervision of Dr. Maria Bergemann.
Title: Chemo-dynamical Analysis of the Galactic Disks
- 2015–2019 **University of Heidelberg – Bachelor of Science,**
Bachelor studies in physics,
Max Planck Institute for Astronomy Heidelberg, under supervision of Dr. Maria Bergemann.
Title: Non-LTE: Impact on Abundances of Galactic Stars and Extra-Galactic Populations.
- 2006–2015 **Albert-Einstein-Gymnasium Frankenthal – A-levels (Abitur),**
Higher school certificate. Advanced courses in physics, mathematics and Latin.

Experience

- 2019 **Institut für Wissenschaftliches Rechnen (IWR),** *Student assistant,*
focusing on the structure of neutron stars and methods of modelling relativistic hydrodynamics.
- 2018–2019 **Max Planck Institute for Astronomy Heidelberg,** *Internship,*
focusing on stellar atmospheres and radiation transfer. Gaining experience in scientific working, programming and writing publications.
- 2017 **International Summer School of the University of Heidelberg,** *Person in support,*
taking care of German learning students from all over the world.
- 2014–2015 **Tutoring School Petra Giello,** *Tutor,*
for mathematics and physics at a private tutoring school in Frankenthal.

Projects & Publications

- March 2024 **M3DIS - A grid of 3D radiation-hydrodynamics stellar atmosphere models for stellar surveys I. Procedure, Validation & The Sun,**
P. Eitner, R. Hoppe, Å. Nordlund, B. Plez, J. Klevas, M. Bergemann.
- October 2023 **Planet formation throughout the Milky Way. Planet populations in the context of Galactic chemical evolution,**
J. Nielsen, M. R. Gent, M. Bergemann, P. Eitner, A. Johansen.
- September 2023 **Observational constraints on the origin of the elements. V. NLTE abundance ratios of [Ni/Fe] in Galactic stars and enrichment by sub-Chandrasekhar mass supernovae,**
P. Eitner, M. Bergemann, A. Ruiter, O. Avril, I. R. Seitenzahl, M. R. Gent, B. Côté.
- June 2022 **The Prince and The Pauper: Co-evolution of the thin and thick disc in the Milky Way,**
M. R. Gent, P. Eitner, C. F. P. Laporte, A. Serenelli, S. E. Koposov, M. Bergemann.
- April 2022 **The chemical composition of globular clusters in the Local Group,**
S. Larsen, P. Eitner, E. Magg, M. Bergemann, et al..
- March 2020 **Observational constraints on the origin of the elements. III. Evidence for the dominant role of sub-Chandrasekhar SN Ia in the chemical evolution of Mn and Fe in the Galaxy,**
P. Eitner, M. Bergemann, C. J. Hansen, G. Cescutti, I. R. Seitenzahl, S. Larsen, B. Plez.

- November 2019 **Observational constraints on the origin of the elements. I. 3D NLTE formation of Mn lines in late-type stars,**
M. Bergemann, A. J. Gallagher, P. Eitner, et al..
- July 2019 **NLTE Modelling of Integrated Light Spectra - Abundances of Barium, Magnesium and Manganese in a Metal-poor Globular Cluster,**
P. Eitner, M. Bergemann, S. Larsen.