

Ralph Neuhäuser's CV

Birthday and place: 6 August 1966 in Soest/Westfalen, Germany

- 1972 - 1985 Elementary and High School in Soest (finished May 1985)
- 1985 - 1987 Studying physics at Ruhr-Universität Bochum, Germany (Vordiplom July 1987)
- 1986 - 1995 Scholarship award from Hanns-Seidel foundation
- 1987 - 1988 Studying physics at University of Sussex, England
(with project on star formation with Prof. L. Mestel)
- 6 - 8/1988 Summer Session of International Space University (MIT, Cambridge, USA)
- 1988 - 1992 Studying physics at Ruhr-Universität Bochum (finished July 1992)
- 1989 - 1992 Student fellow at Planetarium Bochum and University Bochum
- 1991 - 1992 Diploma thesis on *Radial migration of planetesimals*
- 7/1992 Diploma in Physics (Ruhr-Universität Bochum)
- 9/1992 - 2/1996 PhD in Astronomie (LMU München und MPE Garching)
Topic: ROSAT Survey of the Taurus-Auriga T Association
Supervisor: Prof. Morfill and Prof. Kudritzki
Dissertation: summa cum laude, overall: magna cum laude
- 2/1996 - 1/1999 Post-Doc in DFG-priority program *Physics of star formation* (MPE Garching)
- 5/1997 Invited Review Article for/in Science
- 1997-2002 Lead of sub-group of X-ray emission of young stars at MPE (with up to 15 people)
- 1998-2002 Teaching at LMU München in astronomy and physics
- 9/1998 Ludwig-Biermann-Award of Astronomische Gesellschaft
- 1999-2002 Fellow at MPE Garching
- 10/2000 - 4/2001 Guest Scientist at Institute for Astronomy, University of Hawai'i
- 1/2003 Habilitation in astronomy at LMU München
Topic: Young nearby stars and sub-stellar companions
- since
early 2003 Full Professor (Chair for Astrophysics) and Director of Astrophysical Institute
and University Observatory of Friedrich-Schiller-Universität Jena, Germany
(with full tenure)

- **Teaching and Supervision of Thesis work:**

- Supervision of PhD students:

Beate Stelzer (now permanent faculty at Univ. Pallermo, Italy), Viki Joergens (now MPIA Heidelberg), Nuria Huélamo (now Univ. Madrid, Spain), Brigitte König (now high school teacher in Munich); all the above supervised until 2002 at MPE Garching.

The remaining supervision of people below since 2003 at University Jena: Matthias Ammler (now TLS Tautenburg), Chris Broeg (now Univ. Bern, Switzerland), Bettina Posselt (now Penn State U, USA), Markus Mugrauer (now AIU Jena permanent staff), Akemi Tamanai (now MPI Kernphysik Heidelberg), Andreas Seifahrt (now UC Davis, USA), Tobias Schmidt (now AIU Jena), Markus Hohle (now AIU Jena); Thomas Eisenbeiss (now AIU Jena); Tristan Roell (now AIU Jena); Mohammad Moualla (now military service in Syria); currently supervising PhD students Simone Fiedler, Stefanie Rätz, Alexandra Berndt (nee Költzsch), Christian Ginski, Ludwig Trepl, Nina Tetzlaff, Simon Zeidler, Ronny Errmann, Christian Adam, Martin Seeliger, Janos Schmidt.

- Recent supervision of Diploma and Master thesis work (since 2003 only):

Torsten Schöning, Andreas Seifahrt, Torsten Löhne, Christian Gräfe, Tobias Schmidt, Tristan Roell, Thomas Eisenbeiss, Markus Hohle, Stefanie Rätz, Simone Fielder, Mohammad Moualla, Alexandra Berndt (nee Költzsch), Christian Ginski, Nina Tetzlaff, Simon Zeidler, Ronny Errmann, Christian Adam, Martin Seeliger, Georg Förster, Johannes Schönke, Ansgar Gaedke, Sabine König, Helge Rehwald, Markus Gries, Michel Schneider, Stephan Krämer, Annegreth Reithe, Janos Schmidt, Manfred Kitze.

- Recent supervision of Bachelor thesis work (since 2010 only):

Christian Kuhn, Manfred Kitze, Emanuel Schmidt.

- Development of an exercise (2 times 4 hours) for astronomical practica for Univ. Munich and Univ. Jena on star formation (imaging photometry and spectroscopy). Supervision of several student groups each year since 1998.

- 15h of lectures on high energy astrophysics at Univ. Porto (January 2002).

- Guest Lecture (2h) on Direct Imaging of Planets at Hebrew University Jerusalem (2011).

- Professor for Astrophysics at Univ. Jena with 9h teaching per term:

Lectures given (2h per week, some several times):

Stellar astrophysics (hold every year, 2h or 4h/week), introduction to astronomy, high energy astrophysics, extra-solar planets, young stars, solar system, optical and infrared astronomy, massive stars.

Seminars given (2h per week) on e.g. sub-stellar companions, brown dwarfs, star and planet formation, highlights of observational astrophysics, high dynamic range imaging and interferometry, multiplicity of stars, optical variability of stars, neutron stars, planetary transits - as well as institute seminars and physics and astrophysics colloquia.

- **Observing experience** (as Proposal PI and/or observer):

ESO La Silla (50cm photoelectric optical photometry, 0.9m-Dutch CCD imaging optical photometry, ESO-1.52m optical spectroscopy, ESO-MPG-2.2m CCD imaging optical photometry and mid-IR imaging photometry, 3.5m-NTT optical photometry and spectroscopy with EMMI, optical imaging photometry with SuSI, and near-IR photometry and spectroscopy with SofI), 3.6m optical high-res. spectroscopy with Harps.

ESO VLT Cerro Paranal: FORS 1 & 2 optical photometry and spectroscopy, ISAAC near-IR photometry and spectroscopy, UVES optical high-res. spectroscopy, NACO near-IR AO imaging, photometry and spectroscopy, Sinfoni near-IR AO IFU spectroscopy.

Mauna Kea: near-IR AO imaging and photometry with Keck (NIRSPEC), Gemini (Hokupaa), and Subaru (CIAO); near-IR imaging photometry with UKIRT, NASA-IRTF, and IfA-88inch. Wendelstein (Univ. Munich 80-cm telescope with CCD imaging optical photometry).

Calar Alto (3.5m, 2.2m und 1.23m for optical photometry, spectroscopy, and near-IR imaging and spectroscopy with 1.23m-CCD imaging camera, CAFOS, FOCES, ALFA, AstraLux, and O-Cass).

Hubble Space Telescope (WFPC2 optical imaging and photometry).

ROSAT (PSPC, HRI), BeppoSAX, Chandra, XMM-Newton, and VLA.

- **Colloquia talks:** Ruhr-Universität Bochum (2x), University of Massachusetts Amherst, State University of New York Stony Brook, Harvard Center for Astrophysics (opt. & IR group), Universität München, CEA Saclay Paris, Rice University Houston, Universität Jena, MPI Radioastronomie Bonn (2x), ARI Heidelberg, ESO Garching, CalTech Pasadena, ETH Zürich (2x), PSI Zürich, Harvard Center for Astrophysics (X-ray group), ESO Santiago, Universität Erlangen/Bamberg, AIP Potsdam (2x), UC Santa Cruz, UC Los Angeles, JPL Pasadena, IfA Honolulu (3x), Universität Göttingen, IfA Hilo, JAC Hilo, ESO Garching (joint Munich colloquium), Universität Stuttgart, Universität Tübingen, Universität Kiel, Universität Rostock, Tel Aviv University (2x), Technion Haifa (2x), Weizmann Institute Rehovot, Hebrew University Jerusalem (as well as many public talks and talks for high school teachers)
- Many contributed conference talks (and posters).
- **Invited talks at conferences:** ‘Röntgenstrahlung from the Universe’ (highlight talk, Würzburg, 1995), ‘9th Cambridge Workshop on Cool Stars’ (panelist, Florenz, 1995), ‘2nd DENIS Euro-Conference’ (Tenerifa, 1996), ‘Planetary formation in the binary environment’ (Stony Brook, 1996), ‘Internationale Herbsttagung der Astronomischen Gesellschaft’ (Talentschuppen-Vortrag, Tübingen, 1996), ‘Cool Stars in Clusters and Associations: Magnetic Activity and Age Indicators’ (Palermo, 1997), ‘Internationale Herbsttagung der Astronomischen Gesellschaft’ (Biermann-Preis-Vortrag, Heidelberg, 1998), ‘Optical and infrared spectroscopy of circumstellar matter’ (Tautenburg, 1999), ‘From giant planets to cool stars’ (Flagstaff, 1999), ‘The VLT view of star and planet formation’ (Garching, 2001), ‘Planetenbildung: Das Sonnensystem und extrasolare Planeten’ (Berlin, 2002), ‘Nuclei in the Cosmos’ (Heidelberg 2010).
- **Community service and membership:**

Coordinator for splinter meetings on star and planet formation at yearly meetings of the Astronomische Gesellschaft (AG) from 1996 to 2005 (partly together with others), including at JENAM 2001 in Munich. Organisation of three german-japanese workshops on X-ray astronomy 1997 to 2003 in Garching and Kyoto.

Work (with many others) on german decadal review (DFG Denkschrift Astronomie).

Member of Astronomische Gesellschaft (AG), German physical society (DPG), etc.

Referee for A&A, ApJ, AJ, PASP, AN, MNRAS.

Chair of SOC of Joint European and National Astronomy Meeting Splinter Sessions on Extrasolar planets (2001).

SOC Member, International Astronomical Union Symposium on Brown Dwarfs in Hawaii (2002).

Advisor to Observing Program Committee (OPC) at European Southern Observatory (ESO) 2002 and 2003.

Member Science Advisory Team for ESA and ESO for interferometry project GENIE (2003 to 2005).

Advisory Board Northrhine-Westphalia Academy of Science Commission for Stars and Galaxies since 2004).

Member of evaluation committees of LAOG Grenoble (2006) and Kiepenheuer Institut Sonnenphysik (2007).

Member Science Advisory Team for ESO Instruments Gravity and Matisse (since 2010).

Organizer of international workshop on Transits (Transit Timing Variation and Young Exoplanet Transit Initiative) and Astronomical Interferometry (EU MC ToK), Nov 2010, Jena

- **Participation in academic administration:**

Director of Astrophysical Institute University Jena since early 2003, member of faculty council of Physics-Astronomy Faculty University Jena since 2005, member of various commissions of the faculty council for faculty structure, PhD regulations, scholarship and prize selections, many PhD commissions (sometimes commission chair), several habilitation commissions, several professorship search commissions.

- **Large Soft Money Projects:** (above 100000 Euros, except individual normal projects from the DFG, the German national science foundation)

PI of European Union (EU) Framework Program 6 (FP6) Marie Curie (MC) Transfer of Knowledge (ToK) project on Astronomical Interferometry at University Jena together with Institute of Applied Physics University Jena, Fraunhofer Institute for Optics Jena, Thüringer Landessternwarte Tautenburg, LAOG Grenoble, and INAF Napoli (with ~ 700000 Euro for 2006 to 2010). Co-PI on Phase-A study for European Southern Observatory (ESO) Very Large Telescope (VLT) Interferometer (VLTI) 2nd Generation Instrument named VLT Spectro Imager (VSI) with PI institute LAOG Grenoble (2005 to 2007).

Co-PI of project C7 on Astrophysical Populations in Sonderforschungsbereich Transregio (SFB TR 7) on Gravitational Wave Astronomy (Jena, Tübingen, Golm, Hannover, Garching) with project on neutron stars (~ 200000 Euro for 2007 to 2010).

Co-PI of projects C2, C7, and B8 on Neutron Stars in Sonderforschungsbereich Transregio (SFB TR 7) on Gravitational Wave Astronomy (Jena, Tübingen, Golm, Hannover, Garching) with projects on neutron stars population synthesis, quasi-periodic oscillations of neutron stars, and rotational phase-resolved spectroscopy of neutron stars (~ 800000 Euro for 2011 to 2013).

PI of grant from Thuringian Ministry for Science (TKM) for new CCD camera for 90-cm telescope in Großschwabhausen near Jena (~ 200000 Euro for 2007-2009).

PI of instrumentation project for ESO (Mammut) on vibration control metrology for VLT mirrors (~ 111000 Euro for 2009/2010).

Co-PI of three projects in DFG Special Priority Program 1385 *The first 10 million years of the solar system* with Hauschildt, Redmer, Duschl (2010/2011).

Jena, 30 Sept 2011