

Peter Kamphuis
Curriculum Vitae

CONTACT INFORMATION	National Centre for Radio Astronomy Tata Institute of Fundamental Research Pune University Campus Post Bag 3 Ganeshkhind P.O., Pune 411 007 Maharashtra, India <i>Phone:</i> +91 20 2571 9251 <i>Fax:</i> +91 20 2569 2149 <i>E-mail:</i> peterkamphuisastronomy@gmail.com <i>WWW:</i> http://www.ncra.tifr.res.in:8081/~peter/
CITIZENSHIP	the Netherlands
RESEARCH INTERESTS	Galactic Dynamics, H α , Fabry-Pérot, H I Interferometry, IFU Spectroscopy, Galactic Halos, Spiral Galaxies, Warps, Cold Gas Accretion, Galaxy Structure & Evolution
RESEARCH EXPERIENCE	Visiting Postdoctoral Fellow, National Centre for Radio Astrophysics, TIFR, India Main project: Bridging the Gap Between Optical and 21 cm (1st December 2015 - ..) • Independent Position OCE Postdoctoral Research Fellow, Australia Telescope National Facility, CASS Main project: WALLABY Kinematics: Automated Tilted Ring Fitting (1st March 2012 - 30th June 2015) • Host: Dr. B. Koribalski Humboldt Research Fellow, Astronomisches Institut Ruhr-Universität Bochum, Germany Main project: The Origin of Warps and Truncations (1st April 2010 - 1st February 2012) • Host: Professor R.-J. Dettmar Post Doctoral Research Fellow, Astronomisches Institut Ruhr-Universität Bochum, Germany Main project: Galactic Halos (1st July 2009 - 1st April 2010) • Host: Professor R.-J. Dettmar
EDUCATION	Kapteyn Astronomical Institute, University of Groningen, The Netherlands Ph.D., Astronomy & Astrophysics (graduation date: November 7 2008) • Thesis Title: 'The Structure and Kinematics of Halos in Disk Galaxies' • Advisors: Professor R.F. Peletier, Professor P.C. van der Kruit Language Centre, University of Groningen, The Netherlands Course, Languages, September 2005 – December 2005 • Publishing in English Kapteyn Astronomical Institute, University of Groningen, The Netherlands M.Sc., Astronomy & Astrophysics, September 1997 – September 2003 • Thesis Title: "The Formation of Population III stars in the Presence of a Radiation Field" • Advisor: Professor M.C. Spaans
TEAM MEMBERSHIP	HALOGAS MHONGHOOSE WNSHS WALLABY, specifically active in the kinematics group LVHIS MALS

CONFERENCE
ATTENDANCE

- 10/2016: 3GC4- HI fidelity Workshop, Port Alfred, South Africa (Invited Lecturer)
- 5/2016: Astronomical Society of India General Assembly 2016, Srinagar, India
- 2/2016: WALLABY Early Science Workshop, Perth, Australia
- 7/2015: HI in Dwarf Galaxies Workshop, Sydney, Australia
- 2/2015: Computational and Simulation Sciences and eResearch, Melbourne Australia
- 11/2014: Bolton Symposium, Sydney, Australia
- 11/2014: The Periphery of Disks, Sydney, Australia
- 3/2014: PHISCC Meeting, Dwingeloo, the Netherlands
- 3/2014: 3D2014: Gas and stars in galaxies: A multi-wavelength 3D perspective
- 12/2013: Astroinformatics: Knowledge from Data, Sydney, Australia
- 6/2013: Southern Cross: Feeding, Feedback, & Fireworks, Hamilton Island, Australia
- 6/2013: RFI & PHISCC Meeting, Sydney, Australia
- 9/2012: AG Meeting, Hamburg, Germany
- 5/2012: HALOGAS Workshop Las Cruces, U.S.
- 9/2011: HALOGAS Workshop Bochum, Germany
- 9/2011: AG Meeting, Heidelberg, Germany
- 6/2011: "Gas in Galaxies: from Cosmic Web to Molecular Clouds" conference
- 3/2011: HALOGAS Workshop Albuquerque, New Mexico, U.S.
- 9/2010: JENAM 2010.
- 8/2010: HALOGAS Workshop Dwingeloo, the Netherlands
- 12/2006: Bochum-Bonn Extragalactic Astronomy Meeting
- 10/2006: "High Velocity Clouds and the Origin of Neutral Gas in Nearby Galaxies" conference.
- 7/2006: Workshop "Fate of gas in galaxies"
- 10/2005: Workshop "Outer edges of disk galaxies: A truncated perspective"
- 7/2005: "Islands Universes" conference
- 10/2004: NOVA fall school 2004 (Dwingeloo)
- 6/2004: "Extra planar gas" conference (Dwingeloo)
- 5/2004: Dutch astronomers conference (NAC) 2004
- 5/2003: Dutch astronomers conference (NAC) 2003
- 5/2002: Dutch astronomers conference (NAC) 2002

TEACHING
EXPERIENCE

National Centre for Radio Astronomy, Pune, India

Supervision,

- 7/2016-...: Master Student S. Gadge (Modern College,Pune) "The Detailed Mass Distribution of HIPASS J0856+00"
- 1/2016-...: Master Student Y. Pandey (Ferguson College, Pune) "A possible counter rotating disc in ESO149-G003 "

CSIRO Astronomy & Space Science & Macquarie University, Sydney, Australia

Supervision,

- 1/2014-10/2014: Master Student T. Day (Macquarie University) “The Distribution and Kinematics of Neutral Hydrogen in the Inner Disc and Spiral Arms of the Grand Design Spiral Galaxy M83”
- 12/2012-2/2013: Summer student T. Day (Macquarie University) “Extra-planar Gas in Early Type Galaxies”
- 8-11/2013: ASTR 310 project, Md Iftheker Chowdury (Macquarie University) & Thomas Reichardt (Macquarie University) “Dark Matter Distributions in Edge-On Galaxies”

Astronomisches Institut, Ruhr Universität Bochum, Germany

Supervision,

- 4-2011/5-2012: co-supervision of P. Voigtländer (Ruhr Universität Bochum) for his project “The kinematics of the diffuse ionized gas in NGC 4666”

Kapteyn Astronomical Institute, University of Groningen, The Netherlands

Teaching Assistant,

- 2-6/2005: “Astrophysics A” lectured by Dr. L.V.E. Koopmans and Dr. S. Zaroubi.
- 4-6/2004: “Stellar structure and evolution” lectured by Dr. S.C. Trager

**OBSERVATIONAL
EXPERIENCE**

Extensive experience writing proposals for optical and interferometer telescopes for various instruments. Multiple times Duty Astronomer at the Australia Telescope Compact Array, Narrabri, Australia. Observed many times with the Compact Array

- 1-3/2016: +50 hrs with the Giant Metrewave Radio Telescope, Pune, India for several projects
- 7/2014: 2 runs with the Parkes Telescope, Parkes, Australia.
- 11-12/2012: 200+ hrs with the Australia Telescope Compact Array, Narrabri, Australia.
- 2/2011: 3 nights of imaging with the INT at La Palma, Canary Islands, Spain.
- 1/2005: 8 nights of imaging with the 2.4m telescope at MDM observatory, Arizona, U.S.A.
- 10/2003: 7 nights of imaging with the 1.3m telescope at MDM observatory, Arizona, U.S.A.

PRESENTATIONS

Experienced presenter on several subjects such as Gaseous Halos, Warps & Automated Tilted Ring Fitting. Oral presentations at most of the attended conferences. Additionally I have given the following seminars at individual institutes:

- 8/2016: "Fueling Star Formation",
CINESPA, Universidad de Costa Rica, Costa Rica.
- 3/2016: "Modelling for Large Neutral Hydrogen Surveys",
NCRA, India.
- 1/2016: "Science with the 21 cm line",
Ferguson College, India. (Invited)
- 6/2014: "Modelling for Large Neutral Hydrogen Surveys",
CINESPA, Universidad de Costa Rica, Costa Rica.
- 11/2013: "Towards a WALLABY kinematics pipeline",
ICRAR, Australia.
- 4/2013: "The Extra-planar ISM of Spiral Galaxies",
Sydney Institute for Astronomy, Australia.
- 4/2013: "The Extra-planar ISM of Spiral Galaxies",
Macquarie University, Australia.
- 9/2012: "Automated retrieval of kinematical parameters in HI Surveys",
Ruhr Universität Bochum, Germany.
- 8/2012: "Gaseous Halos of Spiral Galaxies",
Tartu Observatory, Estonia.
- 5/2012: "Gaseous Halos of Spiral Galaxies",
CSIRO Astronomy & Space Sciences, Australia.
- 11/2011: "Gaseous Halos of Spiral Galaxies",
Max Planck Institute for Radio Astronomy, Germany.
- 3/2010: "Gaseous Halos",
Michigan State University, USA.
- 6/2010: "The Structure and Kinematics of Halos in Disk Galaxies",
Jagiellonian University, Poland.
- 1/2010: "The Structure and Kinematics of Halos in Disk Galaxies",
Ruhr Universität Bochum, Germany.
- 10/2008: "The Structure and Kinematics of Halos in Disk Galaxies",
Kapteyn Astronomical Institute, the Netherlands.
- 7/2007: "A Dust Component 2 kpc Above the Plane in NGC 891",
Kapteyn Astronomical Institute, the Netherlands.
- 3/2007: "Kinematics of Diffuse Ionized Gas in the Disk Halo Interface of NGC 891 from Fabry-Pérot Observations",
Johns Hopkins University, USA.

OTHER RELEVANT
EXPERIENCE

- 2016 Lecturer for Summer Students at NCRA on the topic of HI Science, Pune, India
- 2015 Organizer of the ATNF Data Reduction Workshop, Sydney, Australia
- 2014 Chair of SOC & LOC for the international Conference "The Periphery of Disks", Sydney, Australia
- 2013-2015 Head of Compact Array Forum to Coordinate Astro group support of Operations.
- 2013: Organizer of Astro Science meetings at ATNF.
- 2012-2014: Organizer of joint HI lunch of CASS, Sydney University and AAO in Sydney Australia.
- 2011: Organizing HALOGAS Workshop Bochum.
- 2009: Organization of the WHISP database and constructing its website.
- 2008-2009: Citation Analysis of Dutch Astronomy through the use of ADS.
- 2005: Member of LOC for Islands Universes conference.
- 2004-2005: Organizer of the Wednesdaylunch at Kapteyn Astronomical Institute Groningen.
- 2001-2002: Student member on the educational board Kapteyn Astronomical Institute Groningen.

PROGRAMMING

IDL, L^AT_EX, HTML, PHP, Matlab, IRAF, GIPSY, Fortran, MIRIAD, CASA, C, Python

LANGUAGES:

Dutch (native), English (fluent), German (advanced), Spanish (basic).

REFEREED
PUBLICATIONS

"New lessons from the H I size-mass relation of galaxies"

Wang, J.; Koribalski, B. S.; Serra, P.; van der Hulst, T.; Roychowdhury, S.; Kamphuis, P.; Chengalur, J. N.
[2016MNRAS.460.2143W](#)

"Probing dust-obscured star formation in the most massive Gamma-Ray Burst host galaxies"

Greiner, J.; Michalowski, M. J.; Klose, S.; Hunt, L. K.; Gentile, G.; Kamphuis, P.; Herrero-Illana, R.; Wieringa, M.; Krhler, T.; Schady, P.; Elliott, J.; Graham, J. F.; Ibar, E.; Knust, F.; Nicuesa Guelbenzu, A.; Palazzi, E.; Rossi, A.; Savaglio, S.
[arXiv:1606.08285](#)

"An HI View of Galaxy Conformity: an HI-rich Environment Around HI-rich Galaxies"

Wang, J.; Serra, P.; Józsa, G. I. G.; Koribalski, B. S.; van der Hulst, J. M.; Kamphuis, P.; Li, C.; Fu, J.; Xiao, T.; Overzier, R.; Wieringa, M.; Wang, E.
[2015MNRAS.453.2399W](#)

"Massive stars formed in atomic hydrogen reservoirs: H I observations of gamma-ray burst host galaxies"

Michaowski, M. J.; Gentile, G.; Hjorth, J.; Krumholz, M. R.; Tanvir, N. R.; Kamphuis, P.; Burlon, D.; Baes, M.; Basa, S.; Berta, S.; Castro Cern, J. M.; Crosby, D.; D'Elia, V.; Elliott, J.; Greiner, J.; Hunt, L. K.; Klose, S.; Koprowski, M. P.; Le Floch, E.; Malesani, D.; Murphy, T.; Nicuesa Guelbenzu, A.; Palazzi, E.; Rasmussen, J.; Rossi, A.; Savaglio, S.; Schady, P.; Sollerman, J.; de Ugarte Postigo, A.; Watson, D.; van der Werf, P.; Vergani, S. D.; Xu, D.
[2015A&A...582A..78M](#)

"Automated Kinematic Modelling of Warped Galaxy Discs in Large HI Surveys I: 3D Tilted Ring Fitting of HI Emission Cubes."

Kamphuis, P.; Józsa, G. I. G.; Oh, S.-H.; Spekkens, K.; Urbancic, N.; Serra, P.; Koribalski, B. S.; Dettmar, R.-J.
[2015MNRAS.452.3139K](#)

"ASKAP HI imaging of the galaxy group IC 1459"

Serra, P.; et al. (Kamphuis, P.)
[2015MNRAS.452.2680S](#)

"Blasting Away a Dwarf Galaxy: The Tail of ESO 324-G024"

Johnson, M. C.; Kamphuis, P.; Koribalski, B.S.; Wang, J.; Oh, S.-H.; Hill, A.; O'Sullivan, S.; Haan, S.; Serra, P.;
[2015MNRAS.451.3192J](#)

"HALOGAS observations of NGC 4414: fountains, interaction, and ram pressure"

de Blok, W. J. G.; Józsa, G. I. G.; Patterson, M.; Gentile, G.; Heald, G. H.; Jütte, E.; Kamphuis, P.; Rand, R. J.; Serra, P.; Walterbos, R. A. M.
[2014A&A...566A..80D](#)

"HALOGAS observations of NGC 5023 and UGC 2082:

Modeling of non-cylindrically symmetric gas distributions in edge-on galaxies",
Kamphuis, P.; Rand, R. J.; Józsa, G. I. G.; Zschaechner, L. K.; Heald, G. H.; Patterson, M. T.; Gentile, G.; Walterbos, R. A. M.; Serra, P.; de Blok, W. J. G.
[2013MNRAS.434.2069K](#)

"The kinematics of the diffuse ionized gas in NGC 4666",
Voigtländer, P.; Kamphuis, P.; Marcelin, M.; Bomans, D. J.; Dettmar, R.-J.
[2013A&A...554A.133V](#)

"HALOGAS: H I Observations and Modeling of the Nearby Edge-on Spiral Galaxy NGC 4244",
Zschaechner, L. K.; Rand, R. J.; Heald, G.H.; Gentile, G. and Kamphuis, P.,
[2011ApJ...740...35Z](#)

"A tale of two galaxies: light and mass in NGC891 and NGC7814",
Fraternali, F.; Sancisi, R.; Kamphuis, P.
[2011A&A...531A..64F](#)

"Warp or Lag? The Ionized and Neutral Hydrogen Gas in the Edge-on Dwarf Galaxy UGC 1281",
Kamphuis, P.; Peletier, R. F.; van der Kruit P. C.; Heald, G. H.
[2011MNRAS.414.3444K](#)

"A Dust Component 2 kpc Above the Plane in NGC 891",
Kamphuis, P.; Holwerda, B. W.; Allen, R. J.; Peletier, R. F.; van der Kruit, P. C.,
[2007, A&A, 471, L1](#)

"Kinematics of Diffuse Ionized Gas in the Disk Halo Interface of NGC 891 from Fabry-Pérot Observations",
Kamphuis, P.; Peletier, R. F.; Dettmar, R.-J.; van der Hulst, J. M.; van der Kruit, P. C.; Allen, R. J.;
[2007, A&A, 468, 951](#)

NON-REFEREED
PUBLICATIONS

"Observations and Kinematic Modeling of Extra-Planar HI in Several Nearby Spiral Galaxies"
Zschaechner, L.K., Rand, R. J., Heald, G., Gentile, G., Kamphuis, P., Józsa, G.,
HALOGAS Collaboration
[2013AAS...22132705Z](#)

"Warp or Lag? The Ionized and Neutral Hydrogen Gas in the Edge-on Dwarf Galaxy UGC 1281"
Kamphuis, P.; Peletier, R. F.; van der Kruit, P. C.; Heald, G. H.
[2012dgkg.book..269K](#)

"The Westerbork HALOGAS Survey: Status and Early Results",
Heald, G.H., Allan, J., Zschaechner, L.K., Kamphuis, P., Rand, R. J. , Józsa, G. I. G. and Gentile, G.
[2011IAUS..277...59H](#)

"Citations and Impact of Dutch Astronomy",
Kamphuis, P., van der Kruit, P. C.
[2010arXiv1011.5311K](#)

"The Structure and Kinematics of Halos in Disk Galaxies",
Kamphuis, P.

"The Vertical Dust Structure in Spiral Disks",
Holwerda, B. W., Kamphuis, P., Allen, R. J., Peletier, R. F., van der Kruit, P. C.,
[2008arXiv0801.2909H](#)

"A Study of Extra-planar HI Gas.",
Kamphuis, P., Peletier, R. F., van der Kruit, P. C., Oosterloo, T. A., Sancisi, R.,
[2007iuse.book..303K](#)