

# Anne-Kathrin Baczko

## Curriculum Vitae

Chalmers tekniska högskola  
Rymd-, geo- och miljövetenskap  
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Google Scholar profile: Anne-Kathrin Baczko

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### Research Experience

- 11/2022 – **Chalmers Astronomy Fellow**, *Chalmers University of Technology, SEE department, AoP and OSO divisions*, Gothenburg, Sweden
- Radio VLBI observations of nearby radio galaxies
  - Organizing Team-building events and projects for astronomers at Chalmers AoP and OSO
- 6/2021 – **Postdoctoral researcher and Assistant Project Scientist for ERC advanced grant M2FINDERS**, *MPI für Radioastronomie, Zensus department*, Bonn, Germany
- Develop method to obtain 3D B-field from polarization multi-frequency VLBI observations
  - Leading a sub-group to obtain B-field measurements from turnover frequency imaging and the development of a Python Module for VLBI jet analysis
- 1/2020 – **Postdoctoral researcher**, *MPI für Radioastronomie, Zensus department*, Bonn, Germany
- Jet collimation studies of the AGN in NGC 1052 with multi-frequency VLBI observations.
- 3/2016 – **Ph.D. contract**, *MPI für Radioastronomie, Zensus department*, Bonn, Germany, supervisors Prof. Dr. E. Ros, Prof. Dr M. Kadler
- Multi-Frequency VLBI Observations of the Active Galaxy NGC 1052
- 9/2015 – **Stipend**, *MPI für Radioastronomie*, Bonn, Germany
- Multi-frequency radio-interferometric data calibration and analysis of AGN.
- 4/2010 – **Student research and teaching assistant**, *Dr. Karl-Remeis Observatory*, Bamberg, Germany, 9/2015
- Supervision: Prof. Dr. M. Kadler, Pro. Dr. J. Wilms, & Prof. Dr. E. Ros
- cm & mm radio-interferometric (VLBI) data calibration and analysis
  - kinematic analysis of the VLBI jet in the active galactic nucleus of AP Lib

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### Career breaks

The duration of my doctoral studies is comparable to the average Physics PhD, besides delivering my first child 1.5 years within the course of the PhD and defending my thesis being pregnant in the 8th months.

25.4- Partial parental leave (50%)

31.12/2020

21.12.2019 – Maternity/parental leave

25.4.2020

21.6.2017 – Maternity/parental leave

31.1.2018

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## Education

- 3/2016 – **Dissertation (PhD)**, *MPI für Radioastronomie*, Bonn and Cologne, Germany,  
12/2019 Thesis title: “Multi-Frequency VLBI Observations of the Active Galaxy NGC 1052” Referees: Prof. Dr. A. Eckart, Prof. Dr. A. Zensus Supervisors: Prof. Dr. E. Ros, Prof. Dr. M. Kadler
- 9/2012 – **Master of Science in Physics**, *Friedrich-Alexander-Universität (FAU)*, Erlangen,  
5/2015 Germany, Thesis title: “Multi-Epoch Millimeter VLBI Observations of the Twin-Jet System in NGC 1052”  
Supervisors: Prof. Dr. M. Kadler, Prof. Dr. J. Wilms
- 9/2008 – **Bachelor of Science in Physics**, *FAU*, Erlangen, Germany  
9/2012 Thesis title: “Calibration and imaging of GMVA observations of NGC 1052”  
Supervisors: Prof. Dr. M. Kadler, Prof. Dr. J. Wilms

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## Grants and Awards

*As a member of the EHT collaboration I obtained several awards. I attach the certificate for the Breakthrough award, proofs of the other awards can be found online in press releases and announcements of the specific foundation, please find a list of all awards to the EHT including links to the official announcements on: <https://eventhorizontelescope.org/awards>.*

- 2021 **Royal Astronomy Society Group Award**, awarded to the EHT Collaboration
- 2020 **Breakthrough Prize in Fundamental Physics**, For the first image of a super-massive black hole, taken by means of an Earth-sized alliance of telescopes, (together with another 346 members of the EHT Collaboration)
- 2020 **Einstein Medal 2020**, awarded to the EHT Collaboration
- 2020 **2020 Bruno Rossi Prize**, awarded to the EHT Collaboration
- 2016-2019 **Membership of the Bonn-Cologne Graduate School for Physics and Astronomy**
- 2016-2019 **Membership of the International Max Planck Research School for Astronomy & Astrophysics**  
My doctoral studies were funded by the International Max Planck Research School (IMPRS) for Astronomy & Astrophysics.

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## Collaborations and Networks

- Event Horizon Telescope (Full member)
- M2FINDERS, ERC advanced grant, PI: Prof. A. Zensus (External collaborator)
- FOR5195, DFG Research Unit, Spokesperson: Prof. M. Kadler (External member, member of the equality committee)
- IAU Junior Member
- Lindau alumni
- LOFAR survey team member
- SKA-VLBI working group member

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## Teaching Experience

*At German Universities it is not common to provide certificates for teaching activities, please contact the FAU Erlangen Nürnberg (Prof. Jörn Wilms: [joern.wilms@sternwarte.uni-erlangen.de](mailto:joern.wilms@sternwarte.uni-erlangen.de)), the MPIfR (Eduardo Ros: [ros@mpi-fr-bonn.mpg.de](mailto:ros@mpi-fr-bonn.mpg.de)) and Chalmers (Matthias Maercker: [matthias.maercker@chalmers.se](mailto:matthias.maercker@chalmers.se)) in the case that certificates for the activities listed below are required.*

- Period 2 **Guest lecturer**, *Radio astronomy course*, Lecturer: Cathy Horellou, Chalmers  
24/25 University of Technology  
Gothenburg, Sweden
- 07/2024 – **Supervision of summer project**, *The technique of radio interferometry*, Chalmers  
08/2024 University of Technology, Gothenburg, Sweden  
Undergraduate Physics student Nicklas Brodin
- 05/2024 **Introductory talk on observations of black holes with the EHT**, *As part of the Master course on “Observational techniques and instrumentation” from Lund University*, Onsala Space Observatory, Onsala, Sweden
- 03/2024 **Advisory support for undergraduate trainee**, *Chalmers*, Gothenburg, Sweden  
Work-experience pupil Charlotte Rütter
- 01/2024 – **Supervision of 4 BSc. students for their Kandidatarbetet**, *AGN jets at all scales*, Co-advisor: Cathy Horellou, Chalmers University of Technology  
present Gothenburg, Sweden
- Period 2 **Guest lecturer**, *Radio astronomy course*, Lecturer: Cathy Horellou, Chalmers  
23/24 University of Technology  
Gothenburg, Sweden
- Period 1 **Teaching assistant**, *Image processing*, Lecturer: Jouni Kanulainen, Chalmers  
2023 University of Technology  
Gothenburg, Sweden
- 06/2023 **Lecture on black hole astronomy**, *As part of the Water Research School Annual Seminar 2023*, Chalmers University of Technology, Gothenburg, Sweden
- 04/2023 **Introductory talk on astronomical observations of black holes**, *As part of the astronomy course for engineering students at Chalmers University.*, Onsala Space Observatory, Onsala, Sweden
- 2021 **Advisory support for Master student**, *MPI für Radioastronomie*, Bonn, Germany  
Supervising the Master Student Francesco Travaglini (Univ. of Bologna, Erasmus exchange program)
- 2017 **Advisory support for undergraduate trainee**, *MPI für Radioastronomie*, Bonn, Germany  
One-week summer student Laeticia Evertz
- 2016 – 2017 **Advisory support for Bachelor students**, *MPI für Radioastronomie*, Bonn, Germany  
Co-supervising two Bachelor students (Joana Anna Kramer, Laura Ann Busch)
- 2013 – 2015 **Teaching assistant**, *Introduction to astronomy*, Friedrich-Alexander-Universität, Erlangen, Germany
- 2013 – 2015 **Laboratory tutor**, *Responsible for radio lab experiments*, Dr. Karl-Remeis Observatory, Bamberg, Germany

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## Professional Service

- 11/2024 SOC for EHT winter collaboration meeting
- 09/2024 SOC for 2nd Swedish SKA meeting, Gothenburg, Sweden
- 01/2023 - 04/2024 Part of the Science Review Panel for NRAO observing proposals
- 04/2023 Observing support for DDT 3mm VLBI observation at the Onsala Space Observatory
- 01/2023 SOC for 1st Swedish SKA meeting, Stockholm, Sweden
- 05/2022 Organizer (LOC & SOC) of Polarimetry in VLBI workshop, Bonn, Germany
- 04/2021 Observing support for the EHT (monitoring all telescopes currently observing and checking with people local at the telescopes.)
- 07/2019 LOC of EHT Polarimetry busy week, Bonn
- 09/2016 LOC secretary of Young European Radioastronomers' Conference (YERAC), Bonn
- 09/2015 & 05/2016 Observing support for GMVA observation in Effelsberg (Running observing shifts at the Effelsberg telescope during GMVA observations)

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## Outreach

*I am concerned in getting more women interested in STEM areas. I approach this by being present in several outreach activities as a female scientist and being an active member of the equality committee of the FOR5195 research unit. I tutored during the annual Girls day at the MPIfR. During my undergraduate studies I gave an interview for the German TV show Alpha Campus on women studying in STEM areas.*

- 07/2023 Short movie featured in RadioViews (YouTube link: <https://youtu.be/rOam-w6rcpE>)
- 04/2023 Helping out during the Science day at Onsala Space Observatory.
- 07/2022 Interview for Lindau Nobel Blog on the black hole image of Sgr A\*
- 07/2022 **Article for the online magazine "Einstein online"**, A.-K. Baczeko, J. A. Zensus and D. Müller-Dum, "How the Event Horizon Telescope observes black holes", in: Einstein Online Band 14 (2022), 1003
- 12/2021 Short movie for Astronomy on Tap Bonn (YouTube link: [shorturl.at/biST5](https://shorturl.at/biST5))
- 07/2021 – 10/2022 Member of the organizing committee of Astronomy on Tap Bonn
- 11/2021 Public talk at the *Bonner Sternenhimmel*
- 10/2021 Public talk at the *Friedrich-Spee-Akademie Bonn*
- 10/2021 Public talk at the *Volkssternwarte Bonn*
- 02/2021 Public talk at Astronomy on Tap Bonn (Youtube link: [shorturl.at/lpxH](https://shorturl.at/lpxH))
- 04/2019 Participation in a movie presenting the research at the MPIfR VLBI department
- 04/2018 Tutoring during girls day at MPIfR
- 02/2017 Participation in a movie of the IMPRS doctoral school (<https://www.youtube.com/watch?v=FM-rvoKzfAo>)
- 03/2015 Open day of the Dr. Karl Remeis observatory
- 02/2010 Interview for Alpha Campus TV show on 'Frauen an der Universität – weibliche Lebenswege in der Hochschulwelt'

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## Granted observing time as PI

- 2022 **MB019**, *GMVA*, M2FINDERS: extreme magnetic fields in the vicinity of super-massive black holes, 7 sources at 86 GHz  
granted time: 42 hrs
- 2022 **EB092**, *EVN+e-MERLIN*, The collimation region in nearby Radio Galaxies, 6 sources observed at 5, 8 and 22 GHz  
granted time: 39.5 hrs
- 2022 **BB432**, *HSA*, The Collimation Region in nearby Radio Galaxies, 2 sources observed at 15 and 43 GHz  
granted time: 12 hrs
- 2021-2022 **MB016**, *GMVA*, Resolving the twin-jet base in NGC1052, 3 epochs of NGC1052 at 86GHz  
granted time: 33 hrs
- 2017 **BB377**, *VLBA*, Combining GRMHD simulations with multi-frequency VLBA observations in NGC1052, Observations at 6 frequencies  
granted time: 11 hrs
- 2017 **MB005**, *GMVA*, Probing the Jet-Collimation Region close to the central engine in NGC1052, Observations at 86 GHz  
granted time: 12.5 hrs
- 2016 **GB079**, *RadioAstron*, Resolving the Jet-Collimation Region of the NGC1052 Twin-Jet System, Observations at 22 GHz  
granted time: 20 hrs

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## Conferences and workshops

### Invited Talks

- 05/2024 **Astronomdagarna**, *Lund*, Sweden  
AGN jets: from formation to dissipation
- 08/2024 **IAU general assembly EHT side event**, *Kape Town*, South africa, online participation  
The putative center of NGC 1052
- 05/2024 **Seminar Talk**, *Hamburg*, Germany  
Misaligned jets: from formation to dissipation
- 01/2024 **Seminar Talk as part of an interview for a junior professorship**, *Bochum*, Germany  
AGN jets at all scales
- 09/2023 **M2FINDERS and Beyond Workshop**, *Ringberg Castle*, Kreuth, Germany  
Jet formation and expansion studied with multi-frequency VLBI

### Contributed Talks

- 09/2024 **2nd Sweden SKA days**, *Gothenburg*, Sweden  
AGN jets from mpc to Mpc
- 09/2024 **16th European VLBI Network Symposium (EVN)**, *Bonn*, Germany  
AGN jets from formation to dissipation

- 04/2024 **Annual assembly of the DFG research unit 5195**, *Univ. Würzburg, Würzburg, Germany*  
AGN jets at all scales
- 11/2023 **Radio2023**, *Bochum, Germany*  
AGN jet evolution at all scales
- 09/2023 **Second Workshop on German Science Opportunities for the ngVLA**, *Leipzig, Germany*  
AGN jets at all scales
- 04/2023 **Annual assembly of the DFG research unit 5195**, *Univ. Würzburg, Würzburg, Germany*  
Jet evolution in Radio Galaxies
- 07/2022 **15th European VLBI Network Symposium (EVN)**, *Cork, Ireland*  
The collimation and acceleration zone of double-sided AGN jets
- 03/2022 **Kickoff Meeting of the DFG research unit 5195**, *Univ. Würzburg, Würzburg, Germany*  
The putative center of NGC1052.
- 12/2021 **EHT 2021 virtual collaboration meeting**, *EHT collaboration, Virtual*  
The putative center of NGC 1052
- 11/2021 **ngEHT virtual meeting**, *Next Generation Event Horizon Telescope, Virtual*  
Jet collimation in AGN
- 9/2021 **Annual meeting of the German astronomical society**, *German Astronomical Society, Online (pandemic)*  
Jet collimation in NGC1052 from 1.5 GHz to 86 GHz
- 6/2021 **Extragalactic jets on all scales - launching, propagation, termination**, *jointly organized by MPIA and IIT Indore, Virtual*  
Jet collimation in NGC1052 from 1.5 GHz to 86 GHz
- 12/2020 **EHT 2020 virtual collaboration meeting**, *EHT collaboration, Online*  
The Twin-jet in NGC1052 from 1.4 to 230GHz
- 10/2019 **RadioAstron AGN work week**, *Moscow, Russia, Virtual participation*  
NGC1052 jet ridge-line with ground-based VLBI
- 11/2018 **EHT collaboration meeting**, *Radboud University, Nijmegen, Netherlands*  
NGC1052 - Pinpointing the black hole
- 10/2018 **14th European VLBI Network Symposium (EVN)**, *Granada, Spain*  
A Twin-Jet system from 1.5 GHz to 86 (230) GHz
- 09/2016 **13th European VLBI Network Symposium (EVN)**, *St. Petersburg, Russia*  
NGC1052: Are jets evolving symmetrically?
- 05/2016 **Blazars through sharp multiwavelength eyes**, *Malaga, Spain*  
Millimeter VLBI of NGC1052: Pinpointing a Supermassive Black Hole
- 11/2015 **Dissecting the Universe - Workshop on Results from High-Resolution VLBI**, *Bonn, Germany*  
mm-VLBI observations of the Twin-Jet System in NGC 1052
- 10/2014 **12th European VLBI Network Symposium (EVN)**, *Cagliari, Italy*  
mm-VLBI observations of NGC 1052

### Conference poster presentations

- 08/2024 **IAU general assembly, splinter All-incl AGN**, *Kape Town*, South africa, online participation  
AGN jets in Radio Galaxies
- 05/2023 **Bologna VLBI: Life begins at 40!**, *Bologna*, Italy  
The collimation of AGN jets with large inclination angles **Prize for the best poster**
- 10/2022 **Astronomdagarna**, *Gothenburg*, Sweden  
The collimation and acceleration zone of double-sided AGN jets
- 7/2021 **European VLBI Network (EVN) Mini Symposium**, *University College Cork*, Virtual  
Jet collimation in NGC1052 from 1.5 GHz to 86 GHz
- 08/2014 **Annual meeting of the German astronomical society**, *Bamberg*, Germany  
mm-VLBI observations of NGC 1052
- 10/2012 **11th European VLBI Network (EVN) Symposium**, *Bordeaux*, France  
Calibration and imaging of GMVA observations of NGC 1052

### Attended schools and symposia

- 07/2024 **73rd Lindau Nobel Laureate Meeting**, *Lindau*, Germany
- 05/2023 **New Eyes on the Universe: SKA and ngVLA**, *Online participant*, Vancouver Canada
- 06/2021 **70th interdisciplinary Lindau Meeting**, *Online participant*
- 06/2020 **Lindau Online Science days 2020**, *Online participant*
- 06/2020 **Lindau Sciathon 2020**, *Online participant*  
48 hours to work with a group of highly motivated researchers on a fascinating science topic.
- 05/2020 **EHT Imaging busy week**, *MPIfR*, Bonn, Germany
- 07/2019 **EHT Polarimetry busy week**, *MPIfR*, Bonn, Germany
- 03/2018 **BlackHoleCam Face-to-Face Meeting**, *MPIfR*, Bonn, Germany
- 04/2017 **ALMA Community Days**, *MPIfR*, Bonn, Germany
- 09/2016 **Young European Radioastronomers' Conference (YERAC)**, *MPIfR*, Bonn, Germany
- 04/2016 **ALMA Community Days**, *MPIfR*, Bonn, Germany
- 05/2014 **14th Synthesis Imaging Workshop**, *Socorro*, USA
- 09/2013 **5th European Radio Interferometry School**, *ASTRON/JIVE*, Dwingeloo, The Netherlands
- 07/2012 **mm-VLBI with ALMA and other telescopes**, *ESO*, Garching, Germany
- 10/2007 **Practical training for students**, *MPI for astronomy*, Heidelberg, Germany

### Workshops

- 04/2023 **Networking event for female scientists as part of FOR5195 assembly**, *Univ. Würzburg*, Würzburg, Germany
- 02/2023 **Source Finding with AI in astronomy**, *Fraunhofer-Chalmers Centre*, Chalmers, Sweden
- 05/2022 **Polarisation calibration of VLBI data**, *MPIfR*, Bonn, Germany



08/2021 **Personal career coaching**, organized by Max Planck Society, Virtual  
 06/2019 **IMPRS: Marie Curie Fellowships**, MPIfR, Bonn, Germany  
 10/2018 **IMPRS: Postdoc/Fellowships**, MPIfR, Bonn, Germany  
 05/2018 **IMPRS: Non-academic CV**, MPIfR, Bonn, Germany  
 04/2018 **Weck die Chefin in dir**, MPIfR, Bonn, Germany  
 01/2012 **ATHENA-Science Workshop**, ESO, Garching, Germany

## Languages

German	Native speaker	English	Fluent
Swedish	Basics		

## Software and programming languages

Astronomical	AIPS, ISIS (basic skills), CASA (basic skills), ParselTongue, difmap, ehtim (basic skills)
Programming languages	Python (advanced skills), S-Lang (basic skills), HTML (good skills), CSS3 (good skills), PHP (basic skills), MATLAB (basic skills)
Miscellaneous	Latex, Windows, MacOS, Inkscape, Sozi, Gimp, Wordpress

## Methods

- cm- and mm-VLBI with VLBA, GMVA, and global VLBI: Calibration, imaging, modelfitting and phase-referencing
- Basics of VLBI correlation

## Publications

ADS library [https://ui.adsabs.harvard.edu/public-libraries/xf0\\_q8eLTR-vPf6kaaw1MQ](https://ui.adsabs.harvard.edu/public-libraries/xf0_q8eLTR-vPf6kaaw1MQ)

ORCID <https://orcid.org/0000-0003-3090-3975>

Publication statistics (source ADS, as of October 30, 2024)

- 49 refereed publications
- 12,628 citations
- *h*-index:30

### Journal Articles

#### In press

- *The putative center in NGC 1052*  
**A.-K. Baczko**, E. Ros, M. Kadler, EHTC et al., *official EHT paper*, 2024 A&A in press

#### Publications (non-collaboration)

- *Ambilateral collimation study of the twin-jets in NGC 1052*  
**A.-K. Baczko**, E. Ros, M. Kadler, et al., 2022, A&A, 658, A119
- *Dual-high-frequency VLBI study of blazar-jet brightness-temperature gradients and collimation profiles*  
 P. R. Burd, M. Kadler, K. Mannheim, **A.-K. Baczko**, J. Ringholz, E. Ros, 2022, A&A, 660, A1



- *Using evolutionary algorithms to model relativistic jets. Application to NGC 1052*  
C. M. Fromm, Z. Younsi, **A.-K. Baczko** et al., 2019, A&A, 629, A4
- *Asymmetric Jet Production in the AGN NGC 1052*  
**A.-K. Baczko**, R. Schulz, M. Kadler, et al., 2019, A&A, 623, A27
- *Millimeter VLBI of NGC 1052: Dynamics*  
**A.-K. Baczko** et al., 2016, Galaxies, 4,48
- *A Highly Magnetized Twin-Jet Base Pinpoints a Supermassive Black Hole*
- *From Radio to TeV: The surprising Spectral Energy Distribution of AP Librae*  
D.A. Sanchez, B. Giebels, P. Fortin, D. Horan, A. Szostek, S. Fegan, **A.-K. Baczko** et al., 2015, MNRAS, 454, 3229

#### White paper contributions

- *A Collection of German Science Interests in the Next Generation Very Large Array*  
Kadler ... **A.-K. Baczko** et al., 2023, arXiv.2311.10056
- *Future mmVLBI Research with ALMA: A European vision*  
R.P.J. Tilanus ... **A.-K. Baczko** et al., 2014, arXiv:1406.4650

#### Collaboration papers

- *First Very Long Baseline Interferometry Detections at 870  $\mu\text{m}$*   
Raymond, EHTC ... **A.-K. Baczko** et al., 2024 AJ 168 130
- *First Sagittarius A\* Event Horizon Telescope Results. VIII. Physical Interpretation of the Polarized Ring*  
EHTC ... **A.-K. Baczko** et al., 2024 ApJL 964 L26
- *First Sagittarius A\* Event Horizon Telescope Results. VII. Polarization of the Ring*  
EHTC ... **A.-K. Baczko** et al., 2024 ApJL 964 L25
- *Ordered magnetic fields around the 3C 84 central black hole*  
Paraschos, EHTC ... **A.-K. Baczko** et al., 2024 A&A 682, L3
- *The persistent shadow of the supermassive black hole of M 87. I. Observations, calibration, imaging, and analysis*  
EHTC ... **A.-K. Baczko** et al., 2024, ApJ 681,79
- *Ordered magnetic fields around the 3C 84 central black hole*  
Paraschos, ...EHTC ... **A.-K. Baczko** et al., 2024, A&A 682, L3
- *A search for pulsars around Sgr A\* in the first Event Horizon Telescope dataset*  
Pablo, ...EHTC ... **A.-K. Baczko** et al., 2023, ApJ 959,14
- *Polarimetric Geometric Modeling for mm-VLBI Observations of Black Holes*  
Roelofs, ...EHTC ... **A.-K. Baczko** et al., 2023, ApJ 957,21
- *First M87 Event Horizon Telescope Results. IX. Detection of Near-horizon Circular Polarization*  
EHTC ... **A.-K. Baczko** et al., 2023, ApJ 957,20
- *Comparison of Polarized Radiative Transfer Codes Used by the EHT Collaboration*  
Prather, ...EHTC ... **A.-K. Baczko** et al., 2023, ApJ 950, 35

- *The Event Horizon Telescope Image of the Quasar NRAO 530*  
Jorstad, ...EHTC ... **A.-K. Baczko** et al., 2023, ApJ 943, 170
- *Resolving the Inner Parsec of the Blazar J1924–2914 with the EHT*  
Issaoun, ...EHTC ... **A.-K. Baczko** et al., 2022, ApJ 934, 145
- *Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI*  
A. Broderick ... **A.-K. Baczko** (EHTC) et al., 2022, ApJ, 930, 21
- *A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows*  
B. Georgiev ... **A.-K. Baczko** (EHTC) et al., 2022, ApJ, 930, 20
- *Millimeter Light Curves of Sagittarius A\* Observed during the 2017 EHT Campaign*  
M. Wielgus ... **A.-K. Baczko** (EHTC) et al., 2022, ApJ, 930, 19
- *Selective Dynamical Imaging of Interferometric Data*  
J. Farah ... **A.-K. Baczko** (EHTC) et al., 2022, ApJ, 930, 18
- *First Sagittarius A\* Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole in the Center of the Milky Way*  
EHTC ... **A.-K. Baczko** et al., 2022, ApJ, 930, 12  
*I was involved in the imaging process of the source structure, the observations, and the organization in collaboration meetings.*
- *First Sagittarius A\* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration*  
EHTC ... **A.-K. Baczko** et al., 2022, ApJ, 930, 13
- *First Sagittarius A\* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole*  
EHTC ... **A.-K. Baczko** et al., 2022, ApJ, 930, 14
- *First Sagittarius A\* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass*  
EHTC ... **A.-K. Baczko** et al., 2022, ApJ, 930, 15
- *First Sagittarius A\* Event Horizon Telescope Results. V.*  
EHTC ... **A.-K. Baczko** et al., 2022, ApJ, 930, 16
- *First Sagittarius A\* Event Horizon Telescope Results. VI.*  
EHTC ... **A.-K. Baczko** et al., 2022, ApJ, 930, 17
- *The variability of the black-hole image in M87 at the dynamical time scale*  
K. Satapathy ... **A.-K. Baczko** (EHTC) et al., 2022, ApJ, 925, 13S
- *Event Horizon Telescope observations of the jet launching and collimation in Centaurus A*  
M. Janßen ... **A.-K. Baczko** (EHTC) et al., 2021, Nat Astron (2021)
- *Constraints on black-hole charges with the 2017 EHT observations of M87\**  
P. Kocherlakota ... **A.-K. Baczko** (EHTC) et al., 2021, Phys. Rev. D 103, 104047
- *The Polarized Image of a Synchrotron Emitting Ring of Gas Orbiting a Black Hole*  
R. Narayan ... **A.-K. Baczko** (EHTC) et al., 2021, ApJ, 912, 35
- *Broadband Multi-wavelength Properties of M87 During the 2017 EHT Campaign*  
J. C. Algaba ... **A.-K. Baczko** (EHTC) et al., 2021, ApJ 911, 11

- *Polarimetric properties of EHT targets from ALMA*  
C. Goddi ... **A.-K. Baczko** (EHTC) et al., 2021, ApJ, 910, 14
- *First M87 Event Horizon Telescope Results VIII: Magnetic Field Structure Near The Event Horizon*  
EHTC ... **A.-K. Baczko** et al., 2021, ApJ, 910, 13
- *First M87 Event Horizon Telescope Results VII: polarization of the ring*  
EHTC ... **A.-K. Baczko** et al., 2021, ApJ, 910, 12
- *Monitoring the Morphology of M87\* in 2009-2017 with the Event Horizon Telescope*  
M. Wielgus ... **A.-K. Baczko** (EHTC) et al., 2020, ApJ, 901, 67
- *Event Horizon Telescope imaging of the archetypal blazar 3C 279 at an extreme 20 microarcsecond resolution*  
J.-Y. Kim ... **A.-K. Baczko** (EHTC) et al., 2020, A&A, 640, A69
- *Verification of Radiative Transfer Schemes for the EHT*  
R. Gold... **A.-K. Baczko** (EHTC) et al., 2020, ApJ, 897, 148
- *THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope*  
A. E. Broderick ... **A.-K. Baczko** (EHTC) et al., 2020, ApJ, 897, 139
- *SYMBA: An end-to-end VLBI synthetic data generation pipeline. Simulating Event Horizon Telescope observations of M87*  
F. Roelofs ... **A.-K. Baczko** (EHTC) et al., 2020, A&A, 636, A5
- *The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project*  
O. Porth ... **A.-K. Baczko** (EHTC) et al., 2019, ApJ, 243, 26
- *First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole*  
EHTC ... **A.-K. Baczko** et al., 2019, ApJ, 875, L6
- *First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring*  
EHTC ... **A.-K. Baczko** et al., 2019, ApJ, 875, L5
- *First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole*  
EHTC ... **A.-K. Baczko** et al., 2019, ApJ, 875, L4
- *First M87 Event Horizon Telescope Results. III. Data Processing and Calibration*  
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*I was involved in the imaging process of the source structure and the observations.*