

# CURRICULUM VITAE

## Personal Information:

Full Name Iván Martí Vidal  
Birth Date 24 May 1980  
Address Dpt. Astronomia i Astrofísica  
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Position Tenured Associate Professor



## Study & Research:

1986 – 1998 School studies at C.P. Dr. Borràs (Alfarrasí, Spain) and highschool studies at I.B. José Segrelles (Albaida, Spain).  
1998 – 2003 Graduate in Physics at the University of València (UVEG, Spain). Score of **8.9** over **10**.  
2003 – 2004 Technical-Scientific Staff (Dpt. Astronomy, UVEG).  
2004 – 2008 PhD. at UVEG. Supervisor: **J. M. Marcaide**. Score: **Unanimous Cum Laude**.  
2008 Technical-Scientific Staff (Dpt. Astronomy, UVEG).  
2009 – 2011.01 Alexander von Humboldt Fellow at the Max-Planck-Institut für Radioastronomie (MPIfR) in Bonn (Germany).  
2011.01 – 2011.09 Postdoctoral researcher at the MPIfR.  
2011.09 – 2018.09 Staff Astronomer at the Onsala Space Observatory (Chalmers University, Sweden), as a member of the Nordic Node of the European ALMA Regional Center.  
2018.11 – 2019.05 Staff Astronomer at Observatorio de Yebes (Spain).  
2019.06 – 2022.07 GenT Distinguished Researcher (Investigador Distinguido) at UVEG (Spain). CIDEAGENT Program (Generalitat Valenciana).  
2022.07 – to date Tenured Associate Professor (Profesor Titular Universitario) at UVEG (Spain).

## Language Proficiency:

	Level		
	Speaking	Reading/Writing	Listening
<b>Catalan</b>	Mother language		
<b>Spanish</b>	Mother language		
<b>English</b>	C1	C2	C1
<b>Romanian</b>	A2	A1	B2
<b>German</b>	A1	A1	A1
<b>Swedish</b>	A1	A1	A1

-Cambridge Certificate in Advanced English. Score: 196 over 210.

-Certificat de Coneixements de Valencià de la UVEG (Grau Superior).

## Computing Skills:

Languages	Fortran, Python (Scipy, Pylab, ParselTongue,...), Bash, C/C++, Mathematica, Basic, HTML, $\LaTeX$ ... Some experience in code parallelization (OpenMP, MPI, POSIX-threads).
Op. systems	Advanced knowledge of GNU/Linux/Unix (terminal and main graphical environments) and MS Windows.
Num. methods	Advanced knowledge of numerical methods to solve problems, for instance, in the fields of data analysis and optimization (e.g., Martí-Vidal et al. 2014, A&A, 563, 136; Martí-Vidal et al. 2010, A&A 517A, 70), simulations and non-linear PDE integration (e.g., Martí-Vidal et al. 2011, A&A 526A, 143), etc.
Astronomy	Deep knowledge of interferometry applied to Astronomy and Geodesy. Design, calibration, and analysis of ALMA, VLBI (EHT/VLBA/EVN), J-VLA, and VLTI/AMBER data, either using standard software (AIPS, CASA, Difmap, amdlb) or my own routines. Development of advanced data-analysis and calibration software (e.g., <code>uvmultifit</code> , Martí-Vidal et al. 2011, A&A 563A, 136; <code>PolConvert</code> , Martí-Vidal et al. 2016, A&A 587A, 143).
Multimedia	Expertise in the use of software to generate high-quality multimedia presentations and movies: 3D modelling and animation, non-linear video editing... (see <a href="http://mural.uv.es/imarvi">http://mural.uv.es/imarvi</a> , under <i>Teaching Material</i> ) Advanced knowledge of digital image processing. Amateur astro-photographer.

## Main Stays at Research Centers:

2002	Two-month contract by the Nuclear Physics Institute at the <i>Johannes-Gutenberg-Universität Mainz</i> (Germany) from 15 July to 15 September.
2003	One-month stay at <i>Jodrell Bank Observatory</i> .
2004	Three-month stay at <i>Jodrell Bank Observatory</i> .
2006	One-month stay at the <i>Max-Planck-Institut für Radioastronomie</i> (MPIfR) in Bonn (Germany), where I collaborated with Dr. Eduardo Ros.
2007	Three-week stay, as summer student, at <i>JIVE</i> in Dwingeloo (The Netherlands). Two-week stay at the <i>Landessternwarte Königstuhl</i> of the University of Heidelberg (Germany).
2009 – 11	Postdoctoral researcher at the MPIfR in Bonn (Germany).
2010	Invited 3-week stay at the <i>Dpt. Astronomia i Astrofísica</i> (University of Valencia, Spain).
2014	Two-week research stay at MPIfR in Bonn (Germany).
2016	Two-week research stay at Haystack Observatory (MA, USA).
2011 – 18	Staff Astronomer at the Onsala Space Observatory in Sweden.
2018 – 19	Staff Astronomer at Yebes Observatory in Spain.
2008 –	Several short stays at international research centers (IAA/CSIC, Unizar, OAN/CAY, DARK, ...).

## Summary of Publications (as of May 2024):

**141** Refereed publications in international Q1 journals: **27** as first author; **28** as 2nd–3rd co-author.

**9** Refereed publications in *Spanish* scientific journals (**6** as first author).

**60** Conference Proceedings (53 talks; 7 posters). I am the speaker in **33** talks (**15** invited)

**~14200** Citations (to refereed pubs.) ; - Hirsch index: **47** (from SAO/NASA ADS).

## Selection of Invited Seminars:

- 2021 **Light and Magnetic Fields from the Edge of Space and Time**, TIFR (India).
- 2019 **EHT: Fotografiando las fronteras del espacio y el tiempo**, Parc Científic de la Universitat de València (Spain)
- 2019 **VLBI with Linear Polarizers**, Metsähovi Observatory (Finland), May 2019 (also given at MPIfR, Germany, on Sept. 2019)
- 2017 **Polarized radio emission from AGN jets at the highest frequencies and resolutions**, Univ. Radboud (the Netherlands), May 2017 (also given at the *Joint Institute for VLBI ERIC*, Netherlands, on May 2017).
- 2016 **Tomography of molecular clouds, at half the age of the Universe, and a bit of bonus jet Physics**, Univ. Zaragoza (Spain), September 2016
- 2016 **An ALMA-VLBI study of PKS 1830–211**, Lund Observatory (Sweden), September 2016
- 2016 **Tomography of molecular clouds, at half the age of the Universe, and the role of the Event Horizon Telescope**, MIT–Haystack Observatory (USA), June 2016 (also given at Harvard-Smithsonian Center for Astrophysics, during the same invited visit).
- 2015 **El origen de los chorros relativistas al desnudo**, Dpt. Astronomia (Univ. Valencia, Spain), May 2015
- 2014 **The lensed blazar of PKS 1830–211: A unique astronomical treasure...**, MPIfR (Bonn, Germany), September 2014
- 2014 **Radio emission from supernovae: the case of SN 1993J**, Univ. Montpellier (France), May 2014
- 2014 **PKS 1830–211: Astrochemistry, fundamental physics, and jets, all at once**, Dpt. Astronomia (Univ. Valencia, Spain), February 2014
- 2013 **Indigestions from the monsters of the Universe**, Gothenburg University (Sweden), December 2013
- 2012 **Jet precession in the active nucleus of M 81**, Dpt. Astronomia (Univ. Valencia, Spain), July 2012
- 2011 **The radio emission from SN 1993J. A complete picture**, Onsala Space Observatory (Sweden), June 2011.
- 2011 **High-precision VLBI astrometry of AGN jets**, MPIfR (Bonn, Germany), February 2011
- 2010 **Resolving the atmospheres of AGBs with IR interferometry**, Dpt. Astronomia (Univ. Valencia, Spain), September 2010
- 2009 **SN 1993J: the complete picture**, MPIfR (Bonn, Germany), June 2009

## Selected Projects & Collaborations:

- Event Horizon Telescope Collaboration (Sgr A\*, M 87\*, OJ 287, NGC 1052,...)
- ALMA Phasing Project (Phases 1 and 2)
- European VGOS (EU-VGOS) Collaboration.
- Several ALMA projects (AGN, SNe, ...): PKS 1830–211, M 87, SN 1987A, ...
- Several mm-VLBI (GMVA) projects (AGN): PKS 1830–211, M 87, ...
- SNe in starbursts (Arp220/Arp299 with LOFAR & cm-VLBI)
- ...

## Invited Outreach Talks (selection):

- 2022 **Atando el cielo a la Tierra con la Radioastronomía** (Casa de la Cultura de Xàtiva; Club Rotary)
- 20XX **Luz y campos magnéticos desde los confines del espacio y el tiempo** (Univ. Valladolid, IGFAE St. de Compostela, Sapiencia Puerto de Sagunto, ...)
- 2020 **Construye tú mismo la imagen de un agujero negro** (E3F Summer School, Univ. Valencia)
- 20XX **Fotografiando la frontera del espacio y el tiempo** (at several locations in Spain)
- 2017 **La volta al món en hora i mitja** (Ontinyent, Spain)
- 2017 **A black hole at the heart of our Galaxy** (Astronomins dag och natt, Fjärås Bräcka, Sweden)
- 2016 **D'on venim i on anem?** (Ontinyent and Alfarrasí, Spain)
- 2015 **Indigestions from the monsters of the Universe** (Goteborg Astronomiska Klubb, Sweden)
- 2014 **Mirant l'Univers amb ulleres ràdio** (IES J. Segrelles, Albaida, Spain)
- 2014 **An astronomical view of monument orientations in the Ancient Egypt** (Chalmers Aerospace Club, Sweden)
- 2013 **Indigestions from the monsters of the Universe** (Goteborg University, Sweden)

## Selection of Other Merits:

- 2023 **Head of Instrumentation** of the Observatori Astronòmic de la UV.
- 2022 **I Premi Dr. Borràs** d' Alfarrasí.
- 2021 **Early Career Award** from the Event Horizon Telescope Collaboration.
- 2021 **Group Award** from the Royal Astronomical Society<sup>1</sup>.
- 2020 **National Prize** from the Spanish Royal Physics Society (*RSEF*) and the BBVA Foundation (*FBBVA*) to the best outreach article.
- 2020 **Einstein Medal** from the A. Einstein Society<sup>1</sup> and **Diamond Achievement Award** from the NSF<sup>1</sup>.
- 2019 **Breakthrough Prize in Fundamental Physics** from the *Breakthrough Prize Foundation*<sup>1</sup>.
- 2019 **CIDEGENT Excellence Research Program** from *Generalitat Valenciana* (Spain).
- 2013 **National Prize** from the Spanish Royal Physics Society (*RSEF*) and the BBVA Foundation (*FBBVA*) to the best outreach article.
- 1999 **ROTARY Prize** to the promotion of the experimental work in Physics (Univ. Valencia).
- PI Press
- **Rapid changes in a black hole may help understand the most energetic radiation in the Universe 2020** (UVEG)
  - **ALMA Reveals Intense Magnetic Field Close to a Black Hole 2015** (ESO 1515)
  - **ALMA reveals a black-hole indigestion in PKS 1830-211 2013** (ESO 1344)
  - **Youngest supernova ever imaged, just after explosion 2011** (IAA/CSIC)
- Pedagogy
- **ANECA Accreditation** as *PAD*, *PCD*, *PUP* and *PTU*.
  - **Diploma of Higher Education (2016) & Docent Degree (2017)** by Chalmers Univ. (Sweden)
- Lecturing
- Lecturer at University of Valencia (Spain): 2006–2008, 2019–to date.
  - *Lecturer and Consultant Expert* at the Valencian International University (VIU) Masters course “Radioastronomía” 2013–2017 (Main Lecturer 2014–2016).
  - *Masters course RRY131 (Radioastronomy)* at Chalmers University (2013–2018).
  - *Invited lectures at international Astronomy schools (IYAS, ERIS, NERAS, DARK/ALMA, ...)*

<sup>1</sup>Shared among the members of the EHT Collaboration

## List of Refereed Publications:

### – PUBLISHED 2024:

- Jaron F., Martí-Vidal I., et al. **Cross-Polarization Gain Calibration of Linearly Polarized VLBI Antennas by Observations of 4C 39.25**, *Radio Science*, 59, 4
- EHT Collaboration et al. **First Sagittarius A\* Event Horizon Telescope Results. VIII. Physical Interpretation of the Polarized Ring**, *ApJ*, 964, 26
- EHT Collaboration et al. **First Sagittarius A\* Event Horizon Telescope Results. VII. Polarization of the Ring**, *ApJ*, 964, 25
- Mus A., Müller H., Martí-Vidal I., et al. **Using multiobjective optimization to reconstruct interferometric data. II. Polarimetry and time dynamics**, *A&A*, 684, 55
- Mus A. & Martí-Vidal I., **New-generation maximum entropy method: a Lagrangian-based algorithm for dynamic reconstruction of interferometric data**, *MNRAS*, 528, 5537
- Paraschos G. F., Kim J.-Y., et al. **Ordered magnetic fields around the 3C 84 central black hole**, *A&A*, 682, 3
- Wielgus M., Issaoun S., Martí-Vidal I., et al. **The internal Faraday screen of Sagittarius A\***, *A&A*, 682, 97
- EHT Collaboration et al. **The persistent shadow of the supermassive black hole of M 87. I. Observations, calibration, imaging, and analysis**, *A&A*, 681, 79

### – PUBLISHED 2023:

- Marin F., Barnouin T., et al. **An X-rays-to-radio investigation of the nuclear polarization from the radio-galaxy Centaurus A**, *MNRAS*, 526, 6321
- Torne P., Liu K., et al. **A Search for Pulsars around Sgr A\* in the First Event Horizon Telescope Data Set**, *ApJ*, 959, 14
- Jiang W., Shen Z., Martí-Vidal I., et al. **Observational Evidence of a Centi-parsec Supermassive Black Hole Binary Existing in the Nearby Galaxy M81**, 959, 11
- Roelofs F., Johnson M. D., et al. **Polarimetric Geometric Modeling for mm-VLBI Observations of Black Holes**, *ApJ*, 957, 21
- EHT Collaboration et al. **First M87 Event Horizon Telescope Results. IX. Detection of Near-horizon Circular Polarization**, *ApJ*, 957, 20
- Wang X., Jiang W., et al. **Detection of a 0.1c Radio Knot in M81\* Associated with a Moderate X-Ray Flare**, *ApJ*, 957, 107
- Emami R., Ricarte A., et al. **Unraveling Twisty Linear Polarization Morphologies in Black Hole Images**, *ApJ*, 950, 38
- Prather B. S., Dexter J., et al. **Comparison of Polarized Radiative Transfer Codes Used by the EHT Collaboration**, *ApJ*, 950, 35
- Muller S., Martí-Vidal I., Combes F., et al. **Cosmo-tomography toward PKS 1830–211: Variability of the quasar and of its foreground molecular absorption monitored with ALMA**, *A&A*, 674, 101
- Lu R.-S., Asada K., Krichbaum T. P., et al. **A ring-like accretion structure in M87 connecting its black hole and jet**, *Nature*, 616, 686
- Albentosa-Ruiz E. & Martí-Vidal I. **Robust analysis of differential Faraday rotation based on interferometric closure observables**, *A&A*, 671, 67
- Crew, G. B.; Goddi, C.; Matthews, L. D. **A Characterization of the ALMA Phasing System at 345 GHz**, *PASP*, 135, 1044, 21

Jorstad S., Wielgus M., Lico R., et al. **The Event Horizon Telescope Image of the Quasar NRAO 530**, *ApJ*, 943, 170

**– PUBLISHED 2022:**

Okino H., Akiyama K., Asada K., et al. **Collimation of the Relativistic Jet in the Quasar 3C 273**, *ApJ*, 940, 65

Mus A., Martí-Vidal I., Wielgus M., et al. **A first search of transients in the Galactic center from 230 GHz ALMA observations**, *A&A*, 666, 39

Wielgus M., Moscibrodzka M., Vos J., et al. **Orbital motion near Sagittarius A\*. Constraints from polarimetric ALMA observations**, *A&A*, 665, L6

Broderick A. E., Pesce D. W., Roman G., et al. **The Photon Ring in M87\***, *ApJ*, 935, 61

Issaoun S., Wielgus M., Jorstad S., et al. **Resolving the Inner Parsec of the Blazar J1924–2914 with the Event Horizon Telescope**, *ApJ*, 934, 145

Zhao G.-Y., Gómez J. L., Fuentes A., et al. **Unraveling the Innermost Jet Structure of OJ 287 with the First GMVA+ALMA Observations**, *ApJ*, 932, 72

Wielgus M., Marchili N., Martí-Vidal I., et al. **Millimeter light curves of Sagittarius A\* observed during the 2017 EHT Campaign**, *ApJL*, 930, 19

Natarajan I., Deane R., Martí-Vidal I., et al. **MeqSilhouette v2: spectrally resolved polarimetric synthetic data generation for the Event Horizon Telescope**, *MNRAS*, 512, 490

Event Horizon Telescope Collaboration et al. **First Sgr A\* EHT Results VI. Testing the black hole metric**, *ApJ*, 930, 17

Event Horizon Telescope Collaboration et al. **First Sgr A\* EHT Results V. Testing astrophysical models of the Galactic Center black hole**, *ApJ*, 930, 16

Event Horizon Telescope Collaboration et al. **First Sgr A\* EHT Results IV. Variability, morphology and black hole mass**, *ApJ*, 930, 15

Event Horizon Telescope Collaboration et al. **First Sgr A\* EHT Results III. Imaging of the Galactic Center SMBH**, *ApJ*, 930, 14

Event Horizon Telescope Collaboration et al. **First Sgr A\* EHT Results II. EHT and multi-wavelength observations, data processing and calibration**, *ApJ*, 930, 13

Event Horizon Telescope Collaboration et al. **First Sgr A\* EHT Results I. The Shadow of the SMBH in the center of the Milky Way**, *ApJ*, 930, 12

Williams D. R. A. et al. **LeMMINGS. IV. The X-ray properties of a statistically-complete sample of the nuclei in active and inactive galaxies from the Palomar sample**, *MNRAS*, 510, 4909

Satapathy K. et al. **The variability of the BH image in M87 at the dynamical timescale**, *ApJ*, 925, 13

Farah J. et al. **Selective dynamical imaging of interferometric data**, *ApJL*, 930, 18

Georgiev B. et al. **A Universal power-law prescription for variability from synthetic images of black hole accretion flows**, *ApJL*, 930, 20

Broderick A. E. et al. **Characterizing and mitigating intraday variability: reconstructing source structure accreting black holes with mm-VLBI**, *ApJL*, 930, 21

**– PUBLISHED 2021:**

Baldi R. et al. **LeMMINGS. III. The e-MERLIN Legacy Survey of the Palomar sample. Exploring the origin of nuclear radio emission in active and inactive galaxies through the [OIII]– radio connection**, *MNRAS*, 508, 2019

Janssen M. et al. **EHT Observations of the Jet Launching and Collimation in Centaurus A**, *Nature Astronomy*, 5, 1017

Martí-Vidal I. & Goddi C. **High-Frequency Polarization Variability from Active Galactic Nuclei**, *Galaxies*, 9, 51

Kocherlakota P. et al. **Constraints on black-hole charges with the 2017 EHT observations of M87\***, *Phys Rev D*, 103, 10 (id.104047)

Narayan R. et al. **The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole**, *ApJ*, 912, 35

Algaba J. C. et al. **Broadband Multi-wavelength Properties of M87 During the 2017 Event Horizon Telescope Campaign**, *ApJL*, 911, 11

Goddi C., Martí-Vidal I. et al. **Polarimetric Properties of EHT Targets from ALMA**, *ApJL*, 910, 14

Event Horizon Telescope Collaboration et al. **First M87\* EHT Results VIII. Magnetic Field Structure near The Event Horizon**, *ApJL*, 910, 13

Event Horizon Telescope Collaboration et al. **First M87\* EHT Results VII. Polarization of the Ring**, *ApJL*, 910, 12

Martí-Vidal I., et al. **Polarization calibration techniques for new-generation VLBI**, *A&A*, 646, 52

– PUBLISHED 2020:

Psaltis D., et al. **Gravitational Test beyond the First Post-Newtonian Order with the Shadow of the M87 Black Hole**, *PhysRevLett*, 125, 14

Wielgus M., et al. **Monitoring the Morphology of M87\* in 2009-2017 with the Event Horizon Telescope**, *ApJ*, 901, 1, 67

Muller S., Jaswanth S., Horellou C. & Martí-Vidal **All good things come in threes: the third image of the lensed quasar PKS 1830–211**, *A&A*, 640, 69

Gold R. et al., **Verification of Radiative Transfer Schemes for the EHT**, *ApJ*, 897, 2, 148

Broderick A. E., et al. **THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope**, *ApJ*, 897, 2, 139

Kim J.-Y. et al. **Event Horizon Telescope imaging of the archetypal blazar 3C 279 at an extreme 20 microarcsecond resolution**, *A&A*, 640, A69

Martí-Vidal I. et al., **ALMA full polarization observations of PKS 1830–211 during its record-breaking flare of 2019**, *A&A*, 638, L13

Muller S. et al. **Detection of deuterated molecules, but not of lithium hydride, in the  $z = 0.89$  absorber toward PKS 1830–211**, *A&A*, 637, A7

Roelofs M. et al. **SYMBA: An end-to-end VLBI synthetic data generation pipeline. Simulating Event Horizon Telescope observations of M 87**, *A&A*, 636, A5

– PUBLISHED 2019:

Climent J. B. et al. **Evidence of a Substellar Companion to AB Dor C**, *ApJL*, 886, 1, L9

Janssen M. et al. **rPICARD: A CASA-based calibration pipeline for VLBI data. Calibration and imaging of 7 mm VLBA observations of the AGN jet in M87**, *A&A*, 626, A75

Porth O., Chatterjee K., Narayan R., et al. **The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project**, *ApJS*, 243, 26

Goddi C., Martí-Vidal I., et al. **Calibration of ALMA as a Phased Array: ALMA Observations during the 2017 VLBI Campaign**, *PASP*, 131, 5003

Event Horizon Telescope Collaboration, **First M87\* Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole**, ApJL, 875, 6

Event Horizon Telescope Collaboration, **First M87\* Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring**, ApJL, 875, 5

Event Horizon Telescope Collaboration, **First M87\* Event Horizon Telescope Results. IV. Imaging the Central Super Massive Black Hole**, ApJL, 875, 4

Event Horizon Telescope Collaboration, **First M87\* Event Horizon Telescope Results. III. Data Processing and Calibration**, ApJL, 875, 3

Event Horizon Telescope Collaboration, **First M87\* Event Horizon Telescope Results. II. Array and Instrumentation**, ApJL, 875, 2

Event Horizon Telescope Collaboration, **First M87\* Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole**, ApJL, 875, 1

Chanapote T. et al. **Demonstration of polarization calibration with the LBA on selected AGNs**, PASA, 36, 13

Varenius E. et al. **The population of SNe/SNR in the starburst galaxy Arp200. A self-consistent analysis of 20 years of VLBI monitoring**, A&A, 623, 173

Hovatta T., O'Sullivan S., Martí-Vidal I., et al. **Magnetic field at the jet base: extreme Faraday rotation in 3C273 revealed by ALMA**, A&A, 623, 111

Issaoun S. et al. **The size, shape and scattering of SgrA\* at 86 GHz: First VLBI with ALMA**, ApJ, 871, 30

Martí-Vidal I. & Muller S. **Submillimeter polarization and variability of quasar PKS 1830-211**, A&A, 621, 18

– PUBLISHED 2018:

Brunner M. et al. **Molecular line study of the S-type AGB star W Aquilae. ALMA observations of CS, SiS, SiO and HCN**, A&A, 617, 23

Mattila S., et al. **A dust-enshrouded tidal disruption event with a resolved radio jet in a galaxy merger**, Science, 361, 482

Abellán F. J., Martí-Vidal I., Marcaide, J. M., & Guirado J.C. **Core-shifts and proper-motion constraints in the S5 polar cap sample at the 15 and 43 GHz bands**, A&A, 614, 74

Lu R., Krichbaum T. P., Roy A. L., et al. **Detection of intrinsic source structure at  $\sim 3$  Schwarzschild radii with Millimeter-VLBI observations of Sgr A\***, ApJ, 859, 60

Hovatta T., O'Sullivan S., Martí-Vidal I., et al. **Magnetic field at a jet base: extreme Faraday rotation in 3C 273 revealed by ALMA**, A&A, accepted (ArXiv:1803.09982)

Baldi R. D., Williams D. R. A., McHardy I. M., et al. **LeMMINGS - I. The eMERLIN legacy survey of nearby galaxies. 1.5-GHz parsec-scale radio structures and cores**, MNRAS, 476, 3478

Ramírez-Olivencia N., Varenius E., Pérez-Torres M., et al. **Sub-arcsecond imaging of Arp 299-A at 150 MHz with LOFAR: Evidence for a starburst-driven outflow**, A&A, 610, 18

Matthews L. D., Crew G. B., Doeleman S. S., et al. **The ALMA Phasing System: A Beamforming Capability for Ultra-high-resolution Science at (Sub)Millimeter Wavelengths**, PASP, 130, 5002

Jiang W., Shen Z., Jiang D., Martí-Vidal I., Kawaguchi N. **VLBI Imaging of M81\* at  $\lambda = 3.4$  mm with Source-frequency Phase-referencing**, ApJ, 853, 14

– PUBLISHED 2017:



Azulay R., Guirado J. C., Marcaide J. M., Martí-Vidal I. et al., **The ABDoradus system revisited: the dynamical mass of ABDor A/C**, A&A, 607, 10

Varenius E. et al., **An atomic hydrogen bridge fueling NGC 4418 with gas from VV 655**, A&A, 607, 43

Azulay R., Guirado J. C., Marcaide J. M., Martí-Vidal I. et al., **Young, active radio stars in the AB Doradus moving group**, A&A, 602, 57

Vlemmings W. H. T., Khouri T., Martí-Vidal I. et al., **Magnetically aligned dust and SiO maser polarization in the envelope of the red supergiant VY CMA**, A&A, 603, 92

Hodgson J. et al., **Location of Gamma-ray emission and magnetic field strengths in OJ 287**, A&A, 597, A80

Van Eck C. L., Haverkorn M., Alves M. I. R., et al. **Faraday tomography of the local interstellar medium with LOFAR: Galactic foregrounds towards IC 342**, A&A, 597, A98

**– PUBLISHED 2016:**

Molina S., Agudo I., Gómez J. L., et al. **Direct Imaging of a Toroidal Magnetic Field in the Inner Jet of NRAO 150**, Galaxies, 4, 70

Martí-Vidal I., Abellan F., Marcaide J. M., et al. **Absolute kinematics of radio source components in the complete S5 polar cap sample IV. Proper motions of the radio cores over a decade and spectral properties**, A&A, 596, A27

Varenius E., Conway J., Martí-Vidal I. et al., **Subarcsecond international LOFAR radio images of Arp 220 at 150 MHz: A kpc-scale star forming disk surrounding nuclei with shocked outflows**, A&A, 593, 86

Baobab L. H. et al., **Linearly Polarized Millimeter and Submillimeter Continuum Emission of Sgr A\* Constrained by ALMA**, A&A, 593, A107

Kimani N., Sendlinger K., Brunthaler A., et al. **The radio evolution of supernova SN 2008iz in M 82**, A&A, 593, A18

Baczko A.K., et al., **A Highly Magnetized Twin-Jet Base Pinpoints a Supermassive Black Hole**, A&A, 593, A47

Martí-Vidal I. & Muller S., **Using gravitationally lensed images to investigate the intrinsic AGN variability**, A&A, 590, 83

Martí-Vidal I., Vlemmings W., & Muller S., **Dual differential polarimetry. A tool for polarization synthesis in interferometric observations**, A&A, 593, A61

Martí-Vidal I., Roy A., Conway J., & Zensus A. J., **Calibration of mixed-polarization interferometric observations**, A&A, 587, A143

Lindberg J. E., Aalto S., Muller S., Martí-Vidal I., et al., **Evidence for a chemically differentiated outflow in Mrk 231**, A&A, 587, 15

**– PUBLISHED 2015:**

ALMA Partnership, Fomalont E. B., Vlahakis C., Corder S., et al., **The 2014 ALMA Long Baseline Campaign: An Overview**, ApJ, 808, 1

Martí-Vidal I., Muller S., Vlemmings W., Horellou C., & Aalto S., **A strong magnetic field in the jet base of a supermassive black hole**, Science, 348, 311

Azulay R., Guirado J. C., Marcaide J. M., Martí-Vidal I. et al., **Dynamical masses of the low-mass stellar binary AB Doradus B**, A&A, 578, A16

Lindroos L., Knudsen K. K., Vlemmings W., Conway J., & Martí-Vidal I., **Stacking of large interferometric data sets in the image- and uv-domain - a comparative study**, MNRAS, 446, 3502L

Varenius E., Conway J.E., Martí-Vidal et al. **Subarcsecond international LOFAR radio images of the M82 nucleus at 118 MHz and 154 MHz**, A&A, 574, A114

– PUBLISHED 2014:

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