

Patrick Koch | Curriculum Vitae

Academia Sinica Institute of Astronomy and Astrophysics (ASIAA)
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Expertise and Interests

Structure Formation on Large and Small Scales: star-forming molecular clouds and filaments, disks, proto-planetary systems, galactic center, clusters of galaxies

Observations: radio observations with single-dish telescopes and interferometers

Microphysics: dust polarization, magnetic fields, turbulence, shocks

Analysis Techniques: development of new techniques and algorithms tailored to high-resolution and high-sensitivity observations

Telescope Commissioning and Instrumentation: antenna optics design and specifications, control algorithms and telescope pointing

Education

University of Zurich <i>PhD, Physics</i> Thesis: Galaxy Cluster Properties from the SZ Effect and X-rays	Switzerland 1999–2003
ETH Zurich <i>MSc, Theoretical Physics</i> Thesis: Cooling Flows in Clusters of Galaxies	Switzerland 1996–1999
ETH Lausanne <i>BSc, Physics</i>	Switzerland 1995–1996
ETH Lausanne <i>BSc, Mechanical Engineering</i>	Switzerland 1993–1995

Positions and Employment

Research Fellow <i>Academia Sinica Institute of Astronomy and Astrophysics (ASIAA)</i>	Taipei, Taiwan 2021/11–present
Principle Investigator (PI) ALMA Band 1 <i>ASIAA</i>	Taipei, Taiwan 2018/07–present
PI ALMA-Taiwan (AS) and co-PI ALMA-Taiwan (MoST → NSTC) <i>ASIAA</i>	Taipei, Taiwan 2012/12–present
Associate Research Fellow (with tenure) <i>ASIAA</i>	Taipei, Taiwan 2016/01–2021/10
PI ALMA East-Asia Front-End Integration Center Taiwan <i>ASIAA</i>	Taipei, Taiwan 2011/07–2014/03
Assistant Research Fellow <i>ASIAA</i>	Taipei, Taiwan 2011/01–2015/12
Research Scientist <i>ASIAA</i> Systems Scientist and Assistant Project Scientist for cosmology project AMiBA	Taipei, Taiwan 2006/04–2010/12
Postdoctoral Fellow <i>ASIAA</i>	Taipei, Taiwan 2003/10–2006/03

Languages

- Swiss: *native*
- German: *native*
- English: *proficient (speaking, reading, writing)*
- French: *proficient (speaking, reading, writing)*
- Spanish: *advanced (speaking, reading, writing)*
- Chinese: *intermediate (speaking), basic (reading, writing)*
- Russian: *basic (speaking, reading, writing)*

Awards and Honors

SMA Selected Science Highlight <i>SMA Observatory</i> highlighted student publication: protostellar envelopes gas kinematics (Gupta et al., 2022, ApJ, 930, 67G)	2023
2021 NAOJ Director General's Award <i>awarding agency: National Astronomical Observatory Japan (NAOJ)</i> award to ASIAA's Band-1 team	2022
SMA Selected Science Highlight <i>SMA Observatory</i> highlighted collaboration publication: B-field and fragmentation (Palau et al., 2021, ApJ, 912, 159P)	2022
AAS Nova Selected Science Highlight <i>American Astronomical Society (AAS), US</i> highlighted collaboration publication: spiraling B-field (Sanhueza et al., 2021, ApJL, 915, L10)	2021
JCMT Selected Science Highlight <i>JCMT Observatory</i> highlighted postdoc publication: gravity, velocity, B-field interplay (Wang, Koch et al., 2020)	2021
2021 RAS Group Achievement Award <i>awarding agency: Royal Astronomical Society</i> team award to the Event Horizon Telescope Collaboration (EHTC)	2021
Bruno Rossi Prize 2020 <i>awarding agency: American Astronomical Society (AAS), US</i> team award to the EHTC	2020
Einstein Medal 2020 <i>awarding agency: Albert-Einstein Society, Switzerland</i> team award to the EHTC	2020
Academia Sinica Career Development Award <i>awarding agency: Academia Sinica, Taiwan</i> national research award for 5-year independent funding	2015–2019
Science and Technology Contribution Award <i>awarding agency: CTCL Foundation, Taiwan</i> team award to ASIAA's black hole research team	2019
NSF Diamond Achievement Award <i>awarding agency: National Science Foundation (NSF), US</i> team award to the EHTC	2019
2020 Breakthrough Prize in Fundamental Physics <i>awarding agency: Breakthrough Prize Foundation, US</i> team award to the EHTC	2019
MoST Research Award for Postdocs <i>Ministry of Science and Technology (MoST), Taiwan</i> awarded postdoc publication: B-field in galactic center (Hsieh, Koch et al., 2018, ApJ, 862, 150H)	2019
AAS Nova Selected Science Highlight <i>American Astronomical Society (AAS), US</i>	2018

highlighted publication: B-field-channeled accretion (Koch et al., 2018, ApJ, 855, 39K)	
Academia Sinica Significant Research Achievement	2018
<i>Academia Sinica, Taiwan</i>	
awarded postdoc publication: B-field in galactic center (Hsieh, Koch et al., 2018, ApJ, 862, 150H)	
JCMT Selected Science Highlight	2018
<i>JCMT Observatory</i>	
highlighted postdoc publication: B-field in galactic center (Hsieh, Koch et al., 2018 ApJ, 862, 150H)	
Academia Sinica Significant Research Achievement	2012
<i>Academia Sinica, Taiwan</i>	
awarded publication: new B-field measurement technique (Koch et al., 2012, ApJ, 747, 79)	
Invited Lecturer	2011
<i>Laboratoire d'Astrophysique de Bordeaux, France</i>	

Publication Summary

189 publications in total – complete publication list in separate document (January 15, 2023)

- o **150 refereed science publications**
- o **23 publications in instrumentation proceedings and white papers**
- o **16 publications in proceedings**

publication statistics (January 15, 2023)

- o citations: 11,024 (google scholar) 9,919 (ads)
- o h-index: 47 (google scholar) 43 (ads)

Observing Experience Summary

about 100 accepted observing proposals with students, postdoctoral fellows, and as a PI

- o **radio – single dish** (JCMT, SMT, APEX, IRAM-30m, Nobeyama-45m, GBT, CSO)
- o **radio – interferometer** (ALMA, SMA, JVLA)
- o **optical / NIR** (CFHT, Subaru, VLT)

Achievements and Highlights

ALMA Band-1 First Light	2021
<i>celestial first light with Band-1 receiver installed on ALMA antenna in Chile</i>	
ALMA Band-1 Manufacturing Readiness Review	2019
<i>official ALMA approval to go ahead with manufacturing of 73 Band-1 receivers (35-50 GHz)</i>	
Greenland Telescope First Light in Thule	2017
<i>Greenland Telescope (GLT) commissioning with artificial radio source, GLT included in EHT array</i>	
Completion of East-Asia Front-End Integration Center in Taiwan	2014
<i>assembly, integration, and testing of multiple receiver bands for 26 ALMA front-ends</i>	
First AMiBA Publications	2009
<i>7 first papers describing array, instrumentation, and first SZE observations of cluster sample</i>	
Commissioning of AMiBA 7-element Array	2006
<i>enabling first cosmological SZE observations with the AMiBA hexapod telescope</i>	

10 Most Important Publications

First Detection of B-field-stabilized Streamers (Koch et al. 2022, ApJ, 940, 89) <i>multi-scale picture of gravity and magnetic field establishing stability criterion</i>	2022
High-Resolution Galactic Center Mosaic (Hsieh, Koch et al. 2021, ApJ, 913, 94H) <i>600-pointing mosaic with ALMA resolving network of streamers and (sub-)filaments</i>	2021
Fragmentation Modes (Tang, Koch et al. 2019, ApJ, 878, 10T) <i>fragmentation modes explained by different interplay between gravity, B-field, and turbulence</i>	2019
High-Resolution Polarization Observation (Koch et al. 2018, ApJ, 855, 39K) <i>detected network of accreting channels guided by magnetic field in high-mass star formation</i>	2018
Ion-Neutral Drift Velocity Constraint (Yen, Zhao, Koch et al. 2018, 615A, 58Y) <i>first measurement of ion-neutral drift velocity to constrain ambipolar diffusion</i>	2018
Magnetic Field around Galactic Center (Hsieh, Koch et al. 2018, ApJ, 862, 150H) <i>detection and modeling of B-field along streamers and circumnuclear disk in galactic center</i>	2018
New Technique to Analyze Disk Velocity Structures (Yen, Koch et al. 2016, 832, 204Y) <i>development of stacking technique to search for non-Keplerian motion and embedded objects</i>	2016
50-source Sample Magnetic Field Analysis (Koch et al. 2014, ApJ, 797, 99) <i>statistical evidence for locally variable magnetic field importance</i>	2014
New Method to Measure Magnetic Field Strength (Koch et al. 2012, ApJ, 747, 79) <i>development of new technique using dust polarization observations</i>	2012
AMiBA Hexapod Telescope (Koch et al. 2009, ApJ, 694, 1670) <i>commissioning of the largest hexapod telescope</i>	2009

Major Roles in International Radio Telescope Projects

ALMA (Atacama Large Millimeter/submillimeter Array)	
○ PI ALMA Band-1	2018/07–present
○ PI ALMA-Taiwan (AS) and co-PI ALMA-Taiwan (MoST → NSTC)	2012/12–present
○ project manager ALMA-Taiwan	2011/07–present
○ co-lead ALMA Band-1 management, development and science team	2013/01–2018/06
○ East-Asia ALMA Science Advisory Committee (EASAC)	2011/07–present
○ PI ALMA East-Asia Front-End Integration Center (EA-FEIC) Taiwan	2011/07–2014/03
○ member ALMA nutator development team	2011/07–2013/12
SMA (Submillimeter Array)	
○ member SMA Polarization Legacy Team	2012/12–present
GLT (Greenland Telescope)	
○ member EHT (Event Horizon Telescope) collaboration through GLT	2017/01–present
○ member testing, commissioning, science verification	2014/06–present
○ co-lead GLT single-dish science working group	2013/01–present
○ lead GLT systems specifications	2011/01–present
○ member GLT core team	2011/01–present

AMiBA (Array for Microwave Background Anisotropy).....

- supervisory role for intensity mapping instrument 2015/12–2021/10
- systems scientist / assistant project scientist 2006/04–2010/12
- lead development of platform phase correction scheme 2007/01–2009/12
- lead design of 1.2m antenna for 13-element array 2006/01–2008/12
- co-lead testing, commissioning, science verification of 7-element array 2004/04–2007/12
- lead telescope pointing and development of hexapod mount control 2004/04–2006/12

International Collaborations and Large Programs

- eDISK** 2019–present
approved ALMA large program (90 hours); substructures in embedded planetary disks
- ALMAGAL** 2019–present
approved ALMA large program (200 hours); fragmentation study in 1000 clumps
- Galactic Center (GC) Mosaics** 2018–present
ALMA GC mapping in multiple transitions (>100 hours with 12m and total-power array)
- EHT** 2017–present
member Event Horizon Telescope (EHT) collaboration through GLT
- BISTRO** 2016–present
approved JCMT/POL-2 large program (600 hours); B-field / polarization survey

Advisory and Review Committees

- IRAM Program Committee 2022–present
- East-Asia ALMA Science Advisory Committee 2011–present
- reviewer ALMA proposals DPR (cycle 8, 9) 2021, 2022
- reviewer MMT / Magellan proposals (2021B, 2022A, 2022B) 2021–2022
- chair Time Allocation Committee (TAC) Submillimeter Array (SMA) 2018–2020
- member TAC Canada-France-Hawaii Telescope (CFHT) 2017–2019
- reviewer ALMA-VLBI proposals (cycle 4) 2016
- external reviewer James Clerk Maxwell Telescope (JCMT) proposals 2016–present
- referee for ApJ, PASP, ApJL, A&A, AJ 2010–present

Conference and Workshop Committees

- East-Asian ALMA Science Workshop (New Taipei City, Taiwan) – LOC 2023/02
- ALMA 2030 Vision: Design Considerations (Tokyo, Japan; virtual) – SOC 2020/10
- Science with the Submillimeter Array (Taipei, Taiwan) – SOC co-chair / LOC 2019/11
- Taiwan-Russia Polarization Workshop (Taipei, Taiwan) – SOC 2018/10
- US-Taiwan ALMA Science Conference: B-Fields or Turbulence? (Hsinchu, Taiwan) – SOC 2018/02
- East-Asian ALMA Science Workshop (Deajeon, Korea) – SOC 2017/11
- ALMA Band-1 Science Workshop (Taipei, Taiwan) – SOC 2017/01
- TIARA Summer School on Radio Astronomy (Taipei, Taiwan) – SOC 2016/10
- East-Asian ALMA Science Workshop (Taipei, Taiwan) – SOC 2013/09
- ALMA Rocks 2013: From Dust to Rocks to Planets (Hawaii, US) – SOC 2013/04
- Polarization Workshop 2012 (Taipei, Taiwan) – SOC / LOC 2012/02
- Second Asian Radio Astronomy School (Taipei, Taiwan) – LOC 2008/08

- AMiBA Workshop (Taipei, Taiwan) – organizer 2007/09
- Millimeter/Sub-Millimeter Interferometry School (Taipei, Taiwan) – LOC / Lecturer 2006/07
- AMiBA Workshop (Hawaii, US) – organizer 2005/09

ASIAA Committee Charges

- ombudsmen committee 2022/09–present
- faculty search committee 2018/11–present
- project evaluation committee 2012/09–present
- standing executive committee 2014/09–2020/09
- space committee 2017/01–2018/12
- colloquium committee 2011/01–2014/09

Staff Supervision

Postdoctoral Fellows Supervised.....

- Natsuko Izumi** 2022/02–present
Infrared Dark Clouds, Star Formation in Outer Galaxy
- Jia-Wei Wang** 2019/09–present
Magnetic Fields and Gas Dynamics in Star-Forming Filaments
- Ming-Yi Lin** (→ ALMA support scientist at ASIAA) 2018/07–2019/06
Intensity Mapping with AMiBA
- Pei-Ying Hsieh** (→ AS Postdoc Fellow → ESO-ALMA Fellow in Chile) 2015/09–2019/12
Galactic Center Dynamics
- Hsi-Wei Yen** (→ AS Postdoc Fellow → ESO Fellow in Garching → ASIAA faculty) 2013/10–2016/07
Magnetic Fields, Neutral, and Ionized Gas Dynamics in Protostellar Disks
- Chih-Wei Locutus Huang** (→ GLT support scientist at ASIAA) 2012/09–2016/03
Cluster Cosmology with the Expanded AMiBA

Project Support Scientists Supervised.....

- Kai-Yang Lin** (AMiBA intensity mapping support scientist) 2017/01–present
- Yu-Wei Victor Liao** (AMiBA intensity mapping support scientist) 2017/01–2020/03
- Oscar Morata** (ALMA Band-1 project scientist) 2014/04–2018/10

Students Supervised.....

- Chen Wei-An** (summer student project) 2020/07–2020/08
On the Fragmentation in Star-Forming Filaments ASIAA
- Lee Han-Tsung** (summer student project) 2020/07–2020/08
On the Fragmentation in Star-Forming Filaments ASIAA
- Shen Bo-Ting** (master thesis) 2016/09–2019/05
Structures in Proto-planetary Systems Observed with ALMA ASIAA/NTU, Taiwan
- Tsai Yi-Shan** (student project) 2018/11–2019/04
Planet Formation in Circumstellar Disks ASIAA
- Añez Nacho** (graduate student) 2018/06–2018/08
The Magnetic Field in the Fragmentation Process in G33 CSIC-IEEC (Spain)/ASIAA
- Chou Hsuan-Gu** (undergraduate student) 2014/12–2016/08
SMA and Single-Dish Analyses of Velocity and Magnetic Field Structures ASIAA/NTU, Taiwan

Juárez Rodríguez Carmen (graduate student) <i>Molecular Lines and Polarization in the Molecular Cloud NGC 6334V</i>	2014/06–2014/08 CSIC-IEEC (Spain)/ASIAA
Liao Wei-Ting (research assistant) <i>Analysis of Cloud and Disk Velocity Patterns</i>	2013/12–2014/07 ASIAA
Juárez Rodríguez Carmen (NSC summer student) <i>Polarization Analysis of the Molecular Cloud NGC 6334V</i>	2013/06–2013/08 ASIAA
Hoang Ngoc Duy (research assistant) <i>Connection between SZE and Synchrotron Emission in Clusters of Galaxies</i>	2012/09–2014/01 ASIAA
Chang Yu-Yen (master thesis) <i>Influence of Large-Scale Filaments on Cluster SZE Cosmology</i>	2007/08–2008/10 ASIAA/Chalmers (Sweden)
Tsai Meng-Yuan (summer student project) <i>Power Spectrum in Star-Forming Regions</i>	2008/06–2008/08 ASIAA
Chang Yu-Yen (summer student project) <i>Modeling of AMiBA Platform Deformation-Induced Phase Correction</i>	2007/06–2007/08 ASIAA
Ho I-Ting (undergraduate student) <i>AMiBA Hexapod Implementation of Reference Pointing Mode</i>	2006/10–2007/06 NTU, Taiwan
Yang Yi-Jung (research assistant) <i>Pressure Power Spectra for Turbulence in Galaxy Clusters</i>	2006/09–2007/07 ASIAA
Ho I-Ting (summer student project) <i>Fringe Analysis and Preparation for Dish Radio Alignment</i>	2006/06–2006/08 ASIAA
Yang Yi-Jung (summer student project) <i>Turbulence in Galaxy Clusters and the SZ Effect</i>	2005/06–2005/08 ASIAA
Blattner Marcel (master thesis) <i>Mergers in Galaxy Clusters and the SZ Effect</i>	2002/09–2003/09 University of Zurich (Switzerland)

Lecturing and Teaching Assistance

○ Cosmology and Galaxy Clusters <i>Lecturer</i> (summer student program; ASIAA)	2008/07
○ Cosmology and Galaxy Clusters <i>Lecturer</i> (summer student program; ASIAA)	2007/07
○ Cosmology and Galaxy Clusters <i>Lecturer</i> (summer student program; ASIAA)	2006/07
○ Submm Radio Astronomy and Cosmology <i>Lecturer</i> (Interferometry School; Taiwan)	2006/07
○ Cosmology and Galaxy Clusters <i>Lecturer</i> (summer student program, ASIAA)	2005/07
○ Statistical Mechanics <i>Teaching Assistant</i> (physics majors; University of Zurich)	2003
○ Thermodynamics <i>Teaching Assistant</i> (physics majors; University of Zurich)	2003/2002
○ Electrodynamics <i>Teaching Assistant</i> (physics majors; University of Zurich)	2002
○ Mechanics <i>Teaching Assistant</i> (physics majors; University of Zurich)	2002/2001
○ Differential Analysis <i>Teaching Assistant</i> (operations research; University of Zurich)	2001/2000
○ Linear Algebra <i>Teaching Assistant</i> (operations research; University of Zurich)	2000/1999

Invited Talks / Reviews in Conferences, Workshops, and Seminars

○ Band 1 – Now Available to the Community! <i>in: East-Asia ALMA Science Workshop (New Taipei City, Taiwan)</i>	upcoming – 2023/02
○ Interplay of Gravity, Turbulence and B-Field in Fragmentation (invited review) <i>in: Star Formation in Different Environments (Quy Nhon, Vietnam; hybrid)</i>	2022/08
○ Band 1 – 10-year Project coming soon <i>in: East-Asia ALMA Science Workshop (NAOJ Tokyo, Japan; virtual)</i>	2022/01

- **Going Local – Multi-scale Picture of Magnetic Field in Star Formation** 2021/06
in: SFB 956 Colloquium (University of Cologne, Germany; virtual)
- **Multi-scale Picture of Magnetic Field and Gravity in W51** 2021/06
in: The 2021 Midwest Magnetic Fields Meeting (Madison, US; virtual)
- **ALMA Band 1** 2021/03
in: From Cores to Codes: Planning for the Next Steps in Planet Formation (Taiwan; virtual)
- **Synergetic Picture of B-Field from Filament to Core Accretion** 2020/04 → postponed
in: Seminar, Harvard-Smithsonian Center for Astrophysics (Boston, US)
- **ALMA Band-1 Project Update** 2020/01
in: East-Asia ALMA Science Workshop (ASIAA, Taiwan)
- **Magnetic Fields in Star Formation with SPICA (invited review)** 2019/05
in: SPICA 2019, Exploring the Infrared Universe: The Promise of SPICA (Crete Island, Greece)
- **Panel Discussions (invited panelist)** 2018/12
in: ALMA East-Asia Development and Science Workshops (Osaka, Japan)
- **Possible Magnetic Field Observations with SPICA** 2018/10
in: SPICA / SMI Japan-Taiwan Kickoff Meeting (ASIAA, Taiwan)
- **Magnetic Fields from Large to Small** 2018/10
in: Seminar, Harvard-Smithsonian Center for Astrophysics (Boston, US)
- **Magnetic Fields in Molecular Clouds** 2018/07
in: Cosmic Cycle of Dust and Gas in the Galaxy (Quy Nhon, Vietnam)
- **ALMA Polarization Observations in Star Formation** 2018/05
in: Seminar, Herzberg Institute of Astrophysics (Victoria, Canada)
- **High-Resolution Magnetic Field Structures Observed with ALMA** 2017/05
in: Seminar, School of Physics and Astronomy, University of Cardiff (UK)
- **The Magnetic Field from Large to Small Scales: How Important is it?** 2017/03
in: ALMA East-Asia Science Workshop (Hsinchu, Taiwan)
- **ALMA-Taiwan Activities** 2014/07
in: ALMA East-Asia Science Workshop (Jeju Island, Korea)
- **ALMA Development in Taiwan and the Path to the Greenland Telescope** 2013/07
in: ALMA East-Asia Development Workshop (NAOJ Tokyo, Japan)
- **Magnetic Fields in Molecular Clouds** 2013/03
in: Colloquium, National Central University (Chiayi, Taiwan)
- **Status of ALMA-Taiwan Activities** 2012/09
in: ALMA East-Asia Science Workshop (KASI, Korea)
- **Mapping Magnetic Fields in Molecular Clouds** 2012/09
in: ALMA East-Asia Science Workshop (KASI, Korea)
- **AMiBA Status** 2012/09
in: Seminar, Laboratoire d'Astrophysique de Bordeaux (Bordeaux, France)
- **ALMA Development in Taiwan** 2011/09
in: ALMA East-Asia Development Workshop (NAOJ Tokyo, Japan)
- **Quantifying the Significance of Turbulence in Molecular Clouds** 2011/05
in: Colloquium, National Tsing-Hua University (Hsinchu, Taiwan)
- **Magnetic Field Strength Maps for Molecular Clouds** 2011/01
in: Seminar, Laboratoire d'Astrophysique de Bordeaux (Bordeaux, France)
- **The AMiBA Project: from 7- to 13-Elements** 2010/09
in: Asia-Pacific Radio Science Conference 2010 (Toyama, Japan)

- **Substructures in Clusters of Galaxies with the SZE** 2010/02
in: ALMA-Taiwan users meeting (Taipei, Taiwan)
- **The AMiBA Project** 2009/11
in: Colloquium, Australia Telescope National Facility (Epping, Australia)
- **The AMiBA Project** 2009/11
in: CosPA 2009 Symposium (Melbourne, Australia)
- **AMiBA: from Commissioning to First Science Results** 2009/01
in: Seminar, Onsala Observatory (Onsala, Sweden)
- **ALMA Band 1 and SZE Substructures** 2008/10
in: ALMA Band-1 Workshop, Herzberg Institute of Astrophysics (Victoria, Canada)
- **The AMiBA Project** 2007/10
in: East-Asia Meeting on Astronomy, EAMA-07 (Fukuoka, Japan)
- **AMiBA – from the Beginning to the First Observation** 2007/07
in: Particle and Astrophysics Seminar, ETH and University of Zurich (Zurich, Switzerland)
- **The Array for Microwave Background Anisotropy (AMiBA) - A Status Report** 2007/04
in: 3rd Japan-Taiwan ALMA Science Meeting (Chungli, Taiwan)
- **Possible Merger Signature in SZE Maps** 2004/08
in: 3rd Korean Astrophysics workshop (Busan, Korea)
- **The Influence of Magnetic Fields on the SZ Effect in Clusters of Galaxies** 2002/06
in: Seminaire du Lerma, Observatoire de Paris (Paris, France)

A — Refereed Publications — Science

B — Technical Proceedings, White Papers (Instrumentation, Engineering)

C — Publications in Proceedings

A — Refereed Publications

- [150] [“Early Planet Formation in Embedded Disks \(eDisk\) II: Limited Dust Settling and Prominent Snow Surfaces in the Edge-on Class I Disk IRAS 04302+2247”](#)
Z.-Y. D. Lin, Z.-Y. Li, J.J. Tobin, N. Ohashi, J.K. Jørgensen, L.W. Looney, Y. Aso, S. Takakuwa, Y. Aikawa, M.L.R. van 't Hoff, I. de Gregorio-Monsalvo, C. Flores, S. Gavino, I. Han, M. Kido, **P.M. Koch**, W. Kwon, S.-P. Lai, C.W. Lee, J.-E. Lee, N.T. Phuong, J. Sai, R. Sharma, P. Sheehan, T.J. Thieme, J.P. Williams, Y. Yamato, and H.-W. Yen
2022, *ApJ*, *submitted*
- [149] [“Early Planet Formation in Embedded Disks \(eDisk\) I: Overview of the Program and First Results”](#)
N. Ohashi, J.J. Tobin, J.K. Jørgensen, S. Takakuwa, P. Sheehan, Y. Aikawa, Z.-Y. Li, L.W. Looney, J.P. Williams, Y. Aso, R. Sharma, J. Sai, Y. Yamato, J.-E. Lee, K. Tomida, H.-W. Yen, F.J. Encalada, C. Flores, S. Gavino, M. Kido, I. Han, Z.-Y. D. Lin, S. Narayanan, N.T. Phuong, A. Santamaría-Miranda, T.J. Thieme, M.L.R. van 't Hoff, I. de Gregorio-Monsalvo, **P.M. Koch**, W. Kwon, S.-P. Lai, C.W. Lee, A. Plunkett, K. Saigo, S. Hirano, K.H. Lam, S. Mori
2022, *ApJ*, *submitted*
- [148] [“Polarization in the GG Tau Ring — Confronting Self-scattering, Mechanical and Magnetic Alignment, Spirals, and Grain Drift”](#)
Y.-W. Tang, A. Dutrey, **P.M. Koch**, S. Guilloteau, H.-W. Yen, E. Di Folco, E. Pantin, T. Muto, A. Kataoka, and R. Brauer
2022, *ApJ*, *submitted*
- [147] [“Multi-scale Physical Properties of NGC 6334 as Revealed by Relative Orientations between Magnetic Fields, Density Gradients, Velocity Gradients, and Gravity”](#)
J. Liu, Q. Zhang, **P.M. Koch**, H.-Y.B. Liu, Z.-Y. Li, S. Li, J.M. Girart, H.-R.V. Chen, T.-C. Ching, P.T.P. Ho, S.-P. Lai, K. Qiu, R. Rao, and Y.-W. Tang
2022, *ApJ*, *submitted*
- [146] [“The Effect of Pixel Size, Beam Convolution and Spatial Filtering on Determining Magnetic Field Angular Dispersion and Strength”](#)
S.D. Clarke, Y.-W. Tang, **P.M. Koch**, G.A. Fuller, and D. Xi
2022, *MNRAS*, *submitted*
- [145] [“The Ring-like Accretion Structure in M87 Connecting its Black Hole and Jet”](#)
R.-S. Lu, K. Asada, T.P. Krichbaum, J. Park, F. Tazaki, H.-Y. Pu, M. Nakamura, A. Lobanov, K. Hada, K. Akiyama, J.-Y. Kim, I. Martí-Vidal, J.L. Gomez, T. Kawashima, F. Yuan, E. Ros, W. Alef, S. Britzen, M. Bremer, A.E. Broderick, A. Doi, G. Giovannini, M. Giroletti, P.T.P. Ho, M. Honma, D.H. Hughes, M. Inoue, W. Jiang, M. Kino, S. Koyama, M. Lindqvist, J. Liu, A.P. Marscher, S. Matsushita, H. Nagai, H. Rottmann, T. Savolainen, K.-F. Schuster, Z.-Q. Shen, P. de Vicente, R.C. Walker, H. Yang, J.A. Zensus, J.C. Algaba, A.

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[144] [“The JCMT BISTRO-2 Survey: Magnetic Fields in the Massive DR21 Filament”](#)

T.-C. Ching, K. Qiu, D. Li, Z. Ren, S.-P. Lai, D. Berry, K. Pattle, R. Furuya, D. Ward-Thompson, D. Johnstone, **P.M. Koch**, C.W. Lee, T. Hoang, T. Hasegawa, W. Kwon, P. Bastien, C. Eswaraiah, J.-W. Wang, K.H. Kim, J. Hwang, A. Soam, A.-R. Lyo, J. Liu, V.J.M. Le Gouellec, D. Arzoumanian, A. Whitworth, J. Di Francesco, F. Poidevin, T. Liu, S. Coudé, M. Tahani, H.-L. Liu, T. Onaka, D. Li, M. Tamura, Z. Chen, X. Tang, F. Kirchschrager, T.L. Bourke, D.-Y. Byun, M. Chen, H.-R.V. Chen, W.-P. Chen, J. Cho, Y. Choi, Y. Choi, M. Choi, A. Chrysostomou, E.J. Chung, Y. S. Dai, P.N. Diep, Y. Doi, Y. Duan, H.-Y. Duan, D. Eden, L. Fanciullo, J. Fiege, L.M. Fissel, E. Franzmann, P. Friberg, R. Friesen, G. Fuller, T. Gledhill, S. Graves, J. Greaves, M. Griffin, Q. Gu, I. Han, S. Hayashi, M. Houde, C.L.H. Hull, T. Inoue, S.-i. Inutsuka, K. Iwasaki, I.-G. Jeong, V. Könyves, J.-h. Kang, M. Kang, J. Karoly, A. Kataoka, K. Kawabata, F. Kemper, J. Kim, M.-R. Kim, S. Kim, H. Kim, K.-T. Kim, G. Kim, J. Kirk, M.I.N. Kobayashi, T. Kusune, J. Kwon, K. Lacaille, C.-Y. Law, S.-S. Lee, H. Lee, J.-E. Lee, C.-F. Lee, Y.-H. Lee, G. Li, H.-b. Li, S.-J. Lin, S.-Y. Liu, X. Lu, S. Mairs, M. Matsumura, B. Matthews, G. Moriarty-Schieven, T. Nagata, F. Nakamura, H. Nakanishi, N.B. Ngoc, N. Ohashi, G. Park, H. Parsons, N. Peretto, F. Priestley, T.-S. Pyo, L. Qian, R. Rao, M. Rawlings, J. Rawlings, B. Retter, J. Richer, A. Rigby, S. Sadavoy, H. Saito, G. Savini, M. Seta, Y. Shimajiri, H. Shinnaga, Y.-W. Tang, K. Tomisaka, L.N. Tram, Y. Tsukamoto, S. Viti, H. Wang, J. Wu, J. Xie, M.-Z. Yang, H.-W. Yen, H. Yoo, J. Yuan, H.-S. Yun, T. Zenko, C.-P. Zhang, Y. Zhang, G. Zhang, J. Zhou, L. Zhu, I. de Looze, P. André, C.D. Dowell, S. Eyres, S. Falle, J.-F. Robitaille, and S. van Loo
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[143] [“Increasing Mass-to-flux Ratio from the Dense Core to the Protostellar Envelope around the Class 0 Protostar HH 211”](#)

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[141] [“First BISTRO Observations of the Dark Cloud Taurus L1495A-B10: the Role of the Magnetic Field in the Earliest Stages of Low-Mass Star Formation”](#)

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[140] [“The JCMT BISTRO Survey: A Spiral Magnetic Field in a Hub-Filament Structure, Monoceros R2”](#)

J. Hwang, J. Kim, K. Pattle, C.W. Lee, **P.M. Koch**, D. Johnstone, K. Tomisaka, A. Whitworth, R.S. Furuya, J.-h. Kang, A.-R. Lyo, E.J. Chung, D. Arzoumanian, G. Park, W. Kwon, S. Kim, M. Tamura, J. Kwon, A. Soam, I. Han, T. Hoang, K.H. Kim, T. Onaka, E. Chakali, D. Ward-Thompson, H.-L. Liu, X. Tang, W.-P. Chen, M. Matsumura, T.D. Hoang, Z. Chen, V.J.M. Le Gouellec, F. Kirchschrager, F. Poidevin, P. Bastien, K. Qiu, T. Hasegawa, S.-P. Lai, D.-Y. Byun, J. Cho, M. Choi, Y. Choi, Y. Choi, I.-G. Jeong, M. Kang, H. Kim, K.-t. Kim, J.-E. Lee, S.-s. Lee, Y.-H. Lee, H. Lee, M.-R. Kim, H. Yoo, H.-S. Yun, M. Chen, J. Di Francesco, J. Fiege, L.M. Fissel, E. Franzmann, M. Houde, K. Lacaille, B. Matthews, S. Sadavoy, G. Moriarty-Schieven, M. Tahani, T.-C. Ching, Y.S. Dai, Y. Duan, Q. Gu, C.-Y. Law, D. Li, D. Li, G. Li, H.-b. Li, T. Liu, X. Lu, L. Qian,

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- [139] “A Multi-Scale Picture of Magnetic Field and Gravity from Large-Scale Filamentary Envelope to Core-Accreting Dust Lanes in the High-Mass Star-Forming Region W51”
P.M. Koch, Y.-W. Tang, P.T.P. Ho, P.-Y. Hsieh, J.-W. Wang, H.-W. Yen, A. Duarte-Cabral, N. Peretto, and Y.-N. Su
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- [138] “Star Formation Activity Beyond the Outer Arm II: Distribution and Properties of Star Formation ”
N. Izumi, N. Kobayashi, C. Yasui, M. Saito, S. Hamano, and **P.M. Koch**
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- [137] “JCMT BISTRO Observations: Magnetic Field Morphology of Bubbles Associated with NGC 6334”
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- [136] “Formation of the SDC13 Hub-Filament System: Cloud-Cloud Collision Imprinted on Multiscale Magnetic Field”
J.-W. Wang, **P.M. Koch**, Y.-W. Tang, G.A. Fuller, N. Peretto, G.M. Williams, H.-W. Yen, H.-T. Lee, and W.-A. Chen
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- [135] “Resolving the Inner Parsec of the Blazar J1924-2914 with the Event Horizon Telescope”
S. Issaoun et al. (Event Horizon Telescope Collaboration)
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- [134] “Characterizing And Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI”
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- [133] “A Universal Power-Law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows”
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- [132] “Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign”
M. Wielgus et al. (Event Horizon Telescope Collaboration)
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- [131] “Selective Dynamical Imaging of Interferometric Data”
J. Farah et al. (Event Horizon Telescope Collaboration)
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- [130] “First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric”
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- [129] “First Sagittarius A* Event Horizon Telescope Results. V. Testing Astrophysical Models of the Galactic Center Black Hole”
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- [128] “First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass”
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- [127] “First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole”
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- [124] “Effects of Magnetic Field Orientation in Dense Cores on Gas Kinematics in Protostellar Envelopes”
A. Gupta, H.-W. Yen, **P.M. Koch**, T.L. Bourke, E.J. Chung, C.L.H. Hull, S.-i. Inutsuka, J. Kwon, W. Kwon, C.W. Lee, C.-F. Lee, K. Pattle, M. Tahani, M. Tamura, and D. Ward-Thompson
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- [123] “The JCMT BISTRO Survey: Multi-wavelength polarimetry of bright regions in NGC 2071 in the far-infrared/submillimeter range, with POL-2 and HAWC+”
L. Fanciullo, F. Kemper, K. Pattle, **P.M. Koch**, S. Sadavoy, S. Coudé, A. Soam, T. Hoang, T. Onaka, V.J.M. Le Gouellec, D. Arzoumanian, D. Berry, C. Eswaraiyah, E.J. Chung, R. Furuya, C.L.H. Hull, J. Hwang, D. Johnstone, J.-h. Kang, K.H. Kim, F. Kirchschrager, V. Könyves, J. Kwon, W. Kwon, S.-P. Lai, C.W. Lee, T. Liu, A.-R. Lyo, I. Stephens M. Tamura, X. Tang, D. Ward-Thompson, A. Whitworth, and H. Shinnaga
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- [122] “B-fields in Star-Forming Regions (BISTRO) Observations: Magnetic Fields in the Filamentary Structures of Serpens Main”
W. Kwon, K. Pattle, S. Sadavoy, C.L.H. Hull, D. Johnstone, D. Ward-Thompson, **P.M. Koch**, R. Furuya, Y. Doi,

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- [121] [“The Variability of the Black Hole Image in M87 at the Dynamical Timescale”](#)
S. Kaushik et al. (Event Horizon Telescope Collaboration)
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P. Sanhueza, J.M. Girart, M. Padovani, D. Galli, C.L.H. Hull, Q. Zhang, P. Cortes, I.W. Stephens, M. Fernández-López, J.M. Jackson, P. Frau, **P.M. Koch**, B. Wu, L.A. Zapata, X. Lu, F. Olguin, Y.-W. Tang, A. Silva, F. Nakamura, T. Sakai, A. Guzman, K. Tatematsu, H.-R.V. Chen, and Q. Nguyen-Luong
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- [118] [“The JCMT BISTRO-2 Survey: The Magnetic Field in the Center of the Rosette Molecular Cloud”](#)
V. Könyves, D. Ward-Thompson, K. Pattle, J. Di Francesco, D. Arzoumanian, Z. Chen, P.N. Diep, C. Eswaraiah, L. Fanciullo, R.S. Furuya, T. Hoang, C.L.H. Hull, J. Hwang, D. Johnstone, J.-h. Kang, J. Karoly, F. Kirchschrager, J.M. Kirk, **P.M. Koch**, J. Kwon, C.W. Lee, T. Onaka, J.-F. Robitaille, A. Soam, M. Tahani, X. Tang, M. Tamura, D. Berry, P. Bastien, T.-C. Ching, S. Coudé, W. Kwon, J.-W. Wang, T. Hasegawa, S.-P. Lai, and K. Qiu
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- [116] [“The JCMT BISTRO Survey: 850/450 \$\mu\text{m}\$ Polarization Study toward NGC 2071IR in Orion B”](#)
A.-R. Lyo, J. Kim, S. Sadavoy, D. Johnstone, D. Berry, W. Kwon, P. Bastien, T. Onaka, J. Di Francesco, J.-H. Kang, R. Furuya, C.L.H. Hull, M. Tamura, **P.M. Koch**, D. Ward-Thompson, K. Pattle, T. Hasegawa, D. Arzoumanian, C.-F. Lee, D.-Y. Byun, F. Kirchschrager, Y. Doi, T. Hoang, K.-T. Kim, C. W. Lee, J. Hwang, P.N. Diep, L. Fanciullo, S.-S. Lee, G. Park, H. Yoo, E.J. Chung, A. Whitworth, S. Mairs, A. Soam, T. Liu, X. Tang, S. Coudé, P. André, T.L. Bourke, H.R.V. Chen, Z. Chen, W.-P. Chen, M. Chen, T.-C. Ching, J. Cho, M. Choi, Y. Choi, A. Chrysostomou, S. Dai, C.D. Dowell, H.-Y. Duan, Y. Duan, D. Eden, C. Eswaraiah, S. Eyres, J. Fiege, L.M. Fissel, E. Franzmann, P. Friberg, R. Friesen, G. Fuller, T. Gledhill, S. Graves, J. Greaves, M. Griffin, Q. Gu, I. Han, J. Hatchell, S. Hayashi, M. Houde, T. Inoue, S.-i. Inutsuka, K. Iwasaki, I.-G. Jeong, M. Kang, S.-J. Kang, A. Kataoka, K. Kawabata, F. Kemper, G. Kim, M.-R. Kim, S. Kim, K.-H. Kim, J. Kirk, M.I.N. Kobayashi, V. Könyves, T. Kusune, J. Kwon, K. Lacaille, S.-P. Lai, C.-Y. Law, J.-E. Lee, Y.-H. Lee, H. Lee, D. Li, D. Li, H.-b. Li, H.-L. Liu, J. Liu, S.-Y. Liu, X. Lu, M. Matsumura, B. Matthews, G. Moriarty-

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- [115] “The Circumnuclear Disk Revealed by ALMA. I. Dense Clouds and Tides in the Galactic Center”
P.-Y. Hsieh, **P.M. Koch**, W.-T. Kim, S. Martín, H.-W. Yen, J. Carpenter, N. Harada, J. Turner, P.T.P. Ho, Y.-W. Tang, and S. Beck
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- [114] “In Search for an Observational Correlation between Fragmentation Level and Magnetic Field Strength in Massive Dense Cores”
A. Palau, Q. Zhang, J.M. Girart, J. Liu, R. Rao, **P.M. Koch**, R. Estalella, H.-R.V. Chen, H.-Y.B. Liu, K. Qiu, Z.-Y. Li, L.A. Zapata, S. Bontemps, T.-C. Ching, H. Shinnaga
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