

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

NSTC Research Award for Postdocs <i>National Science and Technology Council (NSTC), Taiwan</i> awarded postdoc publication: colliding-clouds imprint on B-field (Wang, Koch et al., 2022, ApJ, 931, 115W)	2023
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: CTCI 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>	2019

awarded postdoc publication: B-field in galactic center (Hsieh, Koch et al., 2018, ApJ, 862, 150H)	
AAS Nova Selected Science Highlight	2018
<i>American Astronomical Society (AAS), US</i>	
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

218 publications in total – complete publication list in separate document (February 29, 2024)

- o 175 refereed science publications
- o 26 publications in instrumentation proceedings and white papers
- o 17 publications in proceedings

publication statistics (February 29, 2024)

- o citations: 16,181 (google scholar) 13,772 (ads)
- o h-index: 54 (google scholar) 48 (ads)

Observing Experience Summary

more than 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 Available to the Community	2023
<i>Band-1 offered for the first time in the 2023 ALMA cycle-10 proposal call</i>	
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>	

Most Important Publications

Filamentary Network and Magnetic Field Structure (Wang, Koch et al. 2024, ApJ, 962, 136)	2024
<i>magneto-gravitational configurations leading to two different types of filaments</i>	
First Detection of B-field-stabilized Streamers (Koch et al. 2022, ApJ, 940, 89)	2022
<i>multi-scale picture of gravity and magnetic field establishing stability criterion</i>	
High-Resolution Galactic Center Mosaic (Hsieh, Koch et al. 2021, ApJ, 913, 94H)	2021
<i>600-pointing mosaic with ALMA resolving network of streamers and (sub-)filaments</i>	
Fragmentation Modes (Tang, Koch et al. 2019, ApJ, 878, 10T)	2019
<i>fragmentation modes explained by different interplay between gravity, B-field, and turbulence</i>	
High-Resolution Polarization Observation (Koch et al. 2018, ApJ, 855, 39K)	2018
<i>detected network of accreting channels guided by magnetic field in high-mass star formation</i>	
Ion-Neutral Drift Velocity Constraint (Yen, Zhao, Koch et al. 2018, 615A, 58Y)	2018
<i>first measurement of ion-neutral drift velocity to constrain ambipolar diffusion</i>	
Magnetic Field around Galactic Center (Hsieh, Koch et al. 2018, ApJ, 862, 150H)	2018
<i>detection and modeling of B-field along streamers and circumnuclear disk in galactic center</i>	
New Technique to Analyze Disk Velocity Structures (Yen, Koch et al. 2016, 832, 204Y)	2016
<i>development of stacking technique to search for non-Keplerian motion and embedded objects</i>	
50-source Sample Magnetic Field Analysis (Koch et al. 2014, ApJ, 797, 99)	2014
<i>statistical evidence for locally variable magnetic field importance</i>	
New Method to Measure Magnetic Field Strength (Koch et al. 2012, ApJ, 747, 79)	2012
<i>development of new technique using dust polarization observations</i>	
AMiBA Hexapod Telescope (Koch et al. 2009, ApJ, 694, 1670)	2009
<i>commissioning of the largest hexapod telescope</i>	

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

- STREAMS** 2023–present
approved SMA key science program (>100 hours); star formation energetics across multiple scales
- METIS ELT** 2023–present
member METIS science team
- 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 UK-STFC Award applications 2023
- external science assessor ALMA large programs (cycle 10) 2023
- reviewer ALMA proposals DPR (cycle 8, 9, 10) 2021–2023
- 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

- B-Fields 2024: Magnetic Fields from Clouds to Stars (Tokyo, Japan) – SOC 2024/03

○ Probing the Universe at Higher Resolution (New Taipei City, Taiwan) – SOC / LOC co-chair	2023/10
○ 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 (chair: 2022/09–present)	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 <i>Infrared Dark Clouds, Star Formation in Outer Galaxy</i>	2022/02–present
Jia-Wei Wang <i>Magnetic Fields and Gas Dynamics in Star-Forming Filaments</i>	2019/09–present
Ming-Yi Lin (→ ALMA support scientist at ASIAA) <i>Intensity Mapping with AMiBA</i>	2018/07–2019/06
Pei-Ying Hsieh (→ AS Postdoc Fellow → ESO-ALMA Fellow in Chile → NAOJ faculty) <i>Galactic Center Dynamics</i>	2015/09–2019/12
Hsi-Wei Yen (→ AS Postdoc Fellow → ESO Fellow in Garching → ASIAA faculty) <i>Magnetic Fields, Neutral, and Ionized Gas Dynamics in Protostellar Disks</i>	2013/10–2016/07
Chih-Wei Locutus Huang (→ GLT support scientist at ASIAA) <i>Cluster Cosmology with the Expanded AMiBA</i>	2012/09–2016/03

Visiting Scholars Supervised.....

Pei-Ying Hsieh (Galactic Center Dynamics)	2023/04–2023/08
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Project Support Scientists Supervised.....

Kai-Yang Lin (AMiBA intensity mapping support scientist)	2017/01–2022/12
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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) <i>On the Fragmentation in Star-Forming Filaments</i>	2020/07–2020/08 ASIAA
Lee Han-Tsung (summer student project) <i>On the Fragmentation in Star-Forming Filaments</i>	2020/07–2020/08 ASIAA
Shen Bo-Ting (master thesis) <i>Structures in Proto-planetary Systems Observed with ALMA</i>	2016/09–2019/05 ASIAA/NTU, Taiwan
Tsai Yi-Shan (student project) <i>Planet Formation in Circumstellar Disks</i>	2018/11–2019/04 ASIAA
Añez Nacho (graduate student) <i>The Magnetic Field in the Fragmentation Process in G33</i>	2018/06–2018/08 CSIC-IEEC (Spain)/ASIAA
Chou Hsuan-Gu (undergraduate student) <i>SMA and Single-Dish Analyses of Velocity and Magnetic Field Structures</i>	2014/12–2016/08 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 *Lecturer* (Interferometry School; Taiwan) 2006/07
- Cosmology and Galaxy Clusters *Lecturer* (summer student program, ASIAA) 2005/07
- Statistical Mechanics *Teaching Assistant* (physics majors; University of Zurich) 2003
- Thermodynamics *Teaching Assistant* (physics majors; University of Zurich) 2003/2002
- Electrodynamics *Teaching Assistant* (physics majors; University of Zurich) 2002
- Mechanics *Teaching Assistant* (physics majors; University of Zurich) 2002/2001
- Differential Analysis *Teaching Assistant* (operations research; University of Zurich) 2001/2000
- Linear Algebra *Teaching Assistant* (operations research; University of Zurich) 2000/1999

Invited Talks / Reviews in Conferences, Workshops, and Seminars

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

- [175] [“Dynamical Accretion Flows—ALMAGAL: Flows along filamentary structures in high-mass star-forming clusters”](#)
M.R.A. Wells, H. Beuther, S. Molinari, P. Schilke, C. Battersby, P. Ho, Á. Sánchez-Monge, B. Jones, M.B. Scheuck, J. Syed, C. Gieser, R. Kuiper, D. Elia, A. Coletta, A. Traficante, J. Wallace, A.J. Rigby, R.S. Klessen, Q. Zhang, S. Walch, M. Beltrán, Y.-W. Tang, G. Fuller, D.C. Lis, T. Möller, F. van der Tak, P.D. Klaassen, S.D. Clarke, L. Moscadelli, C. Mininni, H. Zinnecker, Y. Maruccia, S. Pezzuto, M. Benedettini, J.D. Soler, C.L. Brogan, A. Avison, P. Sanhueza, E. Schisano, T. Liu, F. Fontani, K.L.J. Rygl, F. Wyrowski, J. Bally, D.L. Walker, A. Ahmadi, **P.M. Koch**, M. Merello, C. Y. Law, and L. Testi
2024, *A&A*, *submitted*
- [174] [“Early Planet Formation in Embedded Disks \(eDisk\) XV: Influence of Magnetic Field Morphology in Dense Cores on Sizes of Protostellar Disks”](#)
H.-W. Yen, J.P. Williams, J. Sai (I. Choi), **P.M. Koch**, I. Han, J.K. Jørgensen, W. Kwon, C.W. Lee, Z.-Y. Li, L. W. Looney, M. Narang, N. Ohashi, S. Takakuwa, J.J. Tobin, I. de Gregorio-Monsalvo, S.-P. Lai, J.-E. Lee, and K. Tomida
2024, *ApJ*, *submitted*
- [173] [“Dark Dragon Breaks Magnetic Chain: Dynamical Substructures of IRDC G28.34 Form in Quasi-Equilibrium Environments”](#)
J. Liu, Q. Zhang, Y. Lin, K. Qiu, **P.M. Koch**, H.-Y.B. Liu, Z.-Y. Li, J.M. Girart, S. Li, T. Pillai, H.-R.V. Chen, T.-C. Ching, P.T.P. Ho, S.-P. Lai, R. Rao, Y.-W. Tang, and K. Wang
2024, *ApJ*, *submitted*
- [172] [“First Sagittarius A* Event Horizon Telescope Results. VIII. Physical Interpretation of the Polarized Ring”](#)
Event Horizon Telescope Collaboration
2024, *ApJ*, *accepted*
- [171] [“First Sagittarius A* Event Horizon Telescope Results. VII. Polarization of the Ring”](#)
Event Horizon Telescope Collaboration
2024, *ApJ*, *accepted*
- [170] [“Early Planet Formation in Embedded Disks \(eDisk\) XIV: Flared Dust Distribution and Viscous Accretion Heating of the Disk around R CrA IRS 7B-a”](#)
S. Takakuwa, K. Saigo, M. Kido, N. Ohashi, J.J. Tobin, J.K. Jørgensen, Y. Aikawa, Y. Aso, S. Gavino, I. Han, **P.M. Koch**, W. Kwon, C.W. Lee, J.-E. Lee, Z.-Y. Li, Z.-Y. D. Lin, L.W. Looney, S.Mori, J. Sai (I. Choi), R. Sharma, P. Sheehan, K. Tomida, J.P. Williams, Y. Yamato, and H.-W. Yen
2024, *ApJ*, *accepted*
- [169] [“The Magnetic Field in Colliding Filaments G202.3+2.5”](#)

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- [168] “Ordered Magnetic Fields around the 3C 84 Central Black Hole”
G.F. Paraschos et al. (Event Horizon Telescope Collaboration)
2024, *A&A*, 682, L3 --- [[ads](#)]
- [167] “The Persistent Shadow of the Supermassive Black Hole of M87. I. Observations, Calibration, Imaging, and Analysis”
Event Horizon Telescope Collaboration
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- [166] “JWST Observations of Star-Forming Clusters in the Extreme Outer Galaxy”
N. Izumi, M.E. Ressler, R.M. Laue, **P.M. Koch**, M. Saito, N. Kobayashi, and C. Yasui
2023, *ApJ*, *submitted*
- [165] “Filamentary Network and Magnetic Field Structures Revealed with BISTRO in the High-Mass Star-Forming Region NGC2264 – Global Properties and Local Magneto-Gravitational Configurations”
J.-W. Wang, **P.M. Koch**, S.D. Clarke, G. Fuller, N. Peretto, Y.-W. Tang, H.-W. Yen, S.-P. Lai, N. Ohashi, D. Arzoumanian, D. Johnstone, R. Furuya, S.-i. Inutsuka, C.W. Lee, D. Ward-Thompson, V.J.M. Le Gouellec, H.-L. Liu, L. Fanciullo, J. Hwang, K. Pattle, F. Poidevin, M. Tahani, T. Onaka, M.G. Rawlings, E.J. Chung, J. Liu, A.-R. Lyo, F. Priestley, T. Hoang, M. Tamura, D. Berry, P. Bastien, T.-C. Ching, S. Coudé, W. Kwon, M. Chen, C. Eswaraiyah, A. Soam, T. Hasegawa, K. Qiu, T.L. Bourke, D.-Y. Byun, Z. Chen, H.-R. V. Chen, W.-P. Chen, J. Cho, M. Choi, Y. Choi, A. Chrysostomou, S. Dai, J. Di Francesco, P.N. Diep, Y. Doi, Y. Duan, H.-Y. Duan, D. Eden, J. Fiege, L.M. Fissel, E. Franzmann, P. Friberg, R. Friesen, T. Gledhill, S. Graves, J. Greaves, M. Griffin, Q. Gu, I. Han, S. Hayashi, M. Houde, T. Inoue, K. Iwasaki, I.-G. Jeong, V. Könyves, J.-h. Kang, M. Kang, J. Karoly, A. Kataoka, K. Kawabata, Z. Khan, M.-R. Kim, K.-T. Kim, K.H. Kim, S. Kim, J. Kim, H. Kim, G. Kim, F. Kirchschrager, 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, D. Li, H.-b. Li, G. Li, D. Li, S.-J. Lin, T. Liu, S.-Y. Liu, X. Lu, S. Mairs, M. Matsumura, B. Matthews, G. Moriarty-Schieven, T. Nagata, F. Nakamura, H. Nakanishi, N.B. Ngoc, G. Park, H. Parsons, T.-S. Pyo, L. Qian, R. Rao, J. Rawlings, B. Retter, J. Richer, A. Rigby, S. Sadavoy, H. Saito, G. Savini, M. Seta, E. Sharma, Y. Shimajiri, H. Shinnaga, X. Tang, H.D. Thuong, K. Tomisaka, L.N. Tram, Y. Tsukamoto, S. Viti, H. Wang, A. Whitworth, J. Wu, J. Xie, M.-Z. Yang, 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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- [164] “The ALMA Survey of 70 μm Dark High-mass Clumps in Early Stages (ASHES). X: Hot Gas Reveals Deeply Embedded Star Formation”
N. Izumi, P. Sanhueza, **P.M. Koch**, X. Lu, S. Li, G. Sabatini, F.A. Olguin, Q. Zhang, F. Nakamura, K. Tatematsu, K. Morii, T. Sakai, and D. Tafuya
2023, *ApJ*, *accepted*
- [163] “Extremely Coherent Magnetic Field around a Black Hole”
Event Horizon Telescope Collaboration
2023, *accepted*
- [162] “Early Planet Formation in Embedded Disks (eDisk) XIII: Aligned Disks with Non-Settled Dust Around the Newly Resolved Class 0 Protobinary R CrA IRAS 32”
F.J. Encalada, L.W. Looney, S. Takakuwa, Z.-Y. Li, J.K. Jørgensen, N. Ohashi, J.J. Tobin, Y. Aikawa, Y. Aso, **P.M. Koch**, W. Kwon, S.-P. Lai, C.W. Lee, Z.-Y.D. Lin, A. Santamaría-Miranda, I. de Gregorio-Monsalvo, N.T. Phuong, A.L. Plunkett, J. Sai (I. Choi), R. Sharma, H.-W. Yen, and I. Han
2023, *ApJ*, *submitted*

- [161] “Early Planet Formation in Embedded Disks (eDisk) XII: Accretion Streamers, Protoplanetary Disk, and Outflow in the Class I Source Oph IRS63”
C. Flores, N. Ohashi, J.J. Tobin, J.K. Jørgensen, S. Takakuwa¹, Z.-Y. Li, Z.-Y.D. Lin, M.L.R. van 't Hoff, A.L. Plunkett, Y. Yamato, J. Sai (I. Choi), **P.M. Koch**, H.-W. Yen, Y. Aikawa, Y. Aso, I. de Gregorio-Monsalvo, M. Kido, W. Kwon, J.-E. Lee, C.W. Lee, L.W. Looney, A. Santamaría-Miranda, R. Sharma, T.J. Thieme, J.P. Williams, I. Han, S. Narayanan, and S.-P. Lai
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- [160] “First M87 Event Horizon Telescope Results. IX. Detection of Near-horizon Circular Polarization”
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- [159] “From Filament to Clumps and Cores – A Multiscale Study of Fragmentation and the Role of Magnetic Field and Gas Velocity in the Infrared Dark Cloud SDC18.624-0.070”
H.-T. Lee, Y.-W. Tang, **P.M. Koch**, J.-W. Wang, S. Clarke, G.A. Fuller, N. Peretto, W.-J. Kim, and H.-W. Yen
2023, *ApJ*, submitted
- [158] “Early Planet Formation in Embedded Disks (eDisk) XI: A First High-resolution View of Dust Continuum, Envelope, and Outflows toward the BHR 71 Class 0 Protostellar Binary”
S. Gavino, J.K. Jørgensen, R. Sharma, Y.-L. Yang, Z.-Y. Li, J.J. Tobin, N. Ohashi, S. Takakuwa, A.L. Plunkett, W. Kwon, I. de Gregorio-Monsalvo, Z.-Y.D. Lin, A. Santamaría-Miranda, Y. Aso, J. Sai (I. Choi), Y. Aikawa, K. Tomida, **P.M. Koch**, J.-E. Lee, C.W. Lee, S.-P. Lai, L.W. Looney, S. Narayanan, N.T. Phuong, T.J. Thieme, M.L.R. van 't Hoff, J.P. Williams, and H.-W. Yen
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- [157] “The Greenland Telescope — Construction, Commissioning, and Operations in Pituffik”
M.-T. Chen, K. Asada, S. Matsushita, P. Raffin, M. Inoue, P.T.P. Ho, C.-C. Han, D. Kubo, T. Norton, N.A. Patel, G. Nystrom, C.-W.L. Huang, P. Martin-Cocher, J.Y. Koay, C. Romero-Cañizales, C.-T. Liu, T. Huang, K.-Y. Liu, T. Wei, S.-H. Chang, R. Chilson, P. Oshiro, H. Jiang, C.-T. Li, G. Bower, P. Shaw, H. Nishioka, **P.M. Koch**, C.-C. Chen, R. Srinivasan, R. Rao, W. Snow, H. Jinchi, K.-C. Han, S.-C. Chang, L.-M. Lu, H. Ogawa, K. Kimura, Y. Hasegawa, H.-Y. Pu, S. Koyama, M. Nakamura, D. Bintley, C. Walther, P. Friberg, J. Dempsey, T.K. Sriharan, S. Srikanth, S.S. Doeleman, R. Brissenden, J.-C. Algaba Marcos, B. Jeter, C.-Y. Kuo, and J. Park
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- [156] “The JCMT BISTRO Survey: Studying the Complex Magnetic Field of L43”
J. Karoly et al. (BISTRO JCMT Collaboration)
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- [155] “Early Planet Formation in Embedded Disks (eDisk) VII: Keplerian Disk, Disk Substructure, and Accretion Streamers in the Class 0 Protostar IRAS 16544-1604 in CB 68”
M. Kido, S. Takakuwa, K. Saigo, N. Ohashi, J.J. Tobin, J.K. Jørgensen, Y. Aikawa, Y. Aso, F.J. Encalada, C. Flores, S. Gavino, I. de Gregorio-Monsalvo, I. Han, S. Hirano, **P.M. Koch**, W. Kwon, S.-P. Lai², C.W. Lee, J.-E. Lee, Z.-Y. Li, Z.-Y.D. Lin, L.W. Looney, S. Mori, S. Narayanan, A.L. Plunkett, N.T. Phuong, J. Sai (I. Choi), A. Santamaría-Miranda, R. Sharma, P.D. Sheehan, T.J. Thieme, K. Tomida, M.L.R. van 't Hoff, J.P. Williams, Y. Yamato⁵, and H.-W. Yen
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- [154] “Early Planet Formation in Embedded Disks (eDisk) VI: Kinematic Structures around the Very-low-mass Protostar IRAS 16253-2429”
Y. Aso, W. Kwon, N. Ohashi, J.K. Jørgensen, J.J. Tobin, Y. Aikawa, I. de Gregorio-Monsalvo, I. Han, M. Kido, **P.M. Koch**, S.-P. Lai, C.W. Lee, J.-E. Lee, Z.-Y. Li, Z.-Y.D. Lin, L.W. Looney, S. Narayanan, N.T. Phuong, J. Sai (I. Choi), K. Saigo, A. Santamaría-Miranda, R. Sharma, S. Takakuwa, T.J. Thieme, K. Tomida, J.P. Williams, and H.-W. Yen
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- [153] “Early Planet Formation in Embedded Disks (eDisk) V: Possible Annular Substructure in a Circumstellar Disk in the Ced110 IRS4 System”
J. Sai (I. Choi), H.-W. Yen, N. Ohashi, J.J. Tobin, J.K. Jørgensen, S. Takakuwa, K. Saigo, Y. Aso, Z.-Y.D. Lin, **P.M. Koch**, Y. Aikawa, C. Flores, I. de Gregorio-Monsalvo, I. Han, M. Kido, W. Kwon, S.-P. Lai, C.W. Lee, J.-E. Lee, Z.-Y. Li, L.W. Looney, S. Mori, N.T. Phuong, A. Santamaría-Miranda, R. Sharma, T.J. Thieme, K. Tomida, and J.P. Williams
2023, *ApJ*, 954, 67 --- [\[ads\]](#)
- [152] “Early Planet Formation in Embedded Disks (eDisk) IV: The Ringed and Warped Structure of the Disk around the Class I Protostar L1489 IRS”
Y. Yamato, Y. Aikawa, N. Ohashi, J.J. Tobin, J.K. Jørgensen, S. Takakuwa, Y. Aso, J. Choi, C. Flores, I. De Gregorio-Monsalvo, S. Hirano, I. Han, M. Kido, **P.M. Koch**, W. Kwon, S.-P. Lai, C.W. Lee, J.-E. Lee, Z.-Y. Li, Z.-Y.D. Lin, L.W. Looney, S. Mori, S. Narayanan, N.T. Phuong, K. Saigo, A. Santamaría-Miranda, R. Sharma, T.J. Thieme, K. Tomida, M.L.R. van’t Hoff, H.-W. Yen
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- [151] “Early Planet Formation in Embedded Disks (eDisk) III: A First High-resolution View of Submillimeter Continuum and Molecular Line Emission toward the Class 0 Protostar L1527 IRS”
M.L.R. van 't Hoff, J.J. Tobin, Z.-Y. Li, N. Ohashi, J.K. Jørgensen, Z.-Y.D. Lin, Y. Aikawa, Y. Aso, I. de Gregorio-Monsalvo, S. Gavino, I. Han, **P.M. Koch**, W. Kwon, C.W. Lee, J.-E. Lee, L.W. Looney, S. Narayanan, A. Plunkett, J. Sai (I. Choi), A. Santamaría-Miranda, R. Sharma, P.D. Sheehan, S. Takakuwa, T.J. Thieme, J.P. Williams, S.-P. Lai, N.T. Phuong, and H.-W. Yen
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- [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
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- [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
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- [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
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- [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
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- [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
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- [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. Allardi, U. Bach, R. Berthold, D. Bintley, D.-Y. Byun, C. Casadio, S.-H. Chang, C.-C. Chang, S.-C. Chang, C.-C. Chen, M.-T. Chen, R. Chilson, T.C. Chuter, J. Conway, G.B. Crew, J.T. Dempsey, S. Dornbusch, A. Faber, P. Friberg, J. González García, M. Gómez Garrido, C.-C. Han, K.-C. Han, Y. Hasegawa, R. Herrero-Illana, Y.-D. Huang, C.-W.L. Huang, V. Impellizzeri, H. Jiang, H. Jinchi, T. Jung, J. Kallunki, P. Kirves, K. Kimura, J.Y. Koay, **P.M. Koch**, C. Kramer, A. Kraus, D. Kubo, C.-Y. Kuo, C.-T. Li, L.C.-C. Lin, C.-T. Liu, K.-Y. Liu, W.-P. Lo, L.-M. Lu, N. MacDonald, P. Martin-Cocher, H. Messias, Z. Meyer-Zhao, A. Minter, D.G. Nair, H. Nishioka, T.J. Norton, G. Nystrom, H. Ogawa, P. Oshiro, N.A. Patel, U.-L. Pen, Y. Pidopryhora, N. Pradel, P.A. Raffin, R. Rao, I. Ruiz, S. Sanchez, P. Shaw, W. Snow, T.K. Sridharan, R. Srinivasan, B. Tercero, P. Torne, T. Traianou, J. Wagner, C. Walther, T.-S. Wei, J. Yang, C.-Y. Yu
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- [144] “Increasing Mass-to-flux Ratio from the Dense Core to the Protostellar Envelope around the Class 0 Protostar HH 211”
 H.-W. Yen, **P.M. Koch**, C.-F. Lee, N. Hirano, N. Ohashi, J. Sai, S. Takakuwa, Y.-W. Tang, K. Tatematsu, and B. Zhao
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- [143] “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”
 D. Ward-Thompson et al. (BISTRO JCMT Collaboration)
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- [142] “JCMT BISTRO Observations: Magnetic Field Morphology of Bubbles Associated with NGC 6334”
 M. Tahani, P. Bastien, R.S. Furuya, K. Pattle, D. Johnstone, D. Arzoumanian, Y. Doi, T. Hasegawa, S.-i. Inutsuka, S. Coudé, L. Fissel, M.C.-Y. Chen, F. Poidevin, S. Sadavoy, R. Friesen, **P.M. Koch**, J. Di Francesco, G.H. Moriarty-Schieven, Z. Chen, E.J. Chung, C. Eswaraiah, L. Fanciullo, T. Gledhill, V.J.M. Le Gouellec, T. Hoang, J. Hwang, J.-h. Kang, K.H. Kim, F. Kirchschrager, W. Kwon, C.W. Lee, H.-L. Liu, T. Onaka, M.G. Rawlings, A. Soam, M. Tamura, X. Tang, K. Tomisaka, A.P. Whitworth, J. Kwon, T.D. Hoang, M. Redman, D. Berry, T.-C. Ching, J.-W. Wang, S.-P. Lai, K. Qiu, D. Ward-Thompson, M. Houde, D.-Y. Byun, H.-R. Vivien Chen, W.-P. Chen, J. Cho, M. Choi, Y. Choi, A. Chrysostomou, P.N. Diep, H.-Y. Duan, J. Fiege, E. Franzmann, P. Friberg, G. Fuller, S.F. Graves, J.S. Greaves, M.J. Griffin, Q. Gu, I. Han, J. Hatchell, S.S. Hayashi, C.L.H. Hull, T. Inoue, K. Iwasaki, I.-G. Jeong, Y. Kanamori, M. Kang, S.-j. Kang, A. Kataoka, K.S. Kawabata, F. Kemper, G. Kim, J. Kim, K.-T. Kim, M.-R. Kim, S. Kim, J.M. Kirk, M.I.N. Kobayashi, V. Könyves, T. Kusune, K. Lacaille, C.-Y. Law, C.-F. Lee, H. Lee, J.-E. Lee, S.-S. Lee, Y.-H. Lee, D. Li, D. Li, H.-b. Li, J. Liu, S.-Y. Liu, T. Liu, I. de Looze, A.-R. Lyo, S. Mairs, M. Matsumura, B.C. Matthews, T. Nagata, F. Nakamura, H. Nakanishi, N. Ohashi, G. Park, H. Parsons, N. Peretto, T.-S. Pyo, L. Qian, R. Rao, B. Retter, J. Richer, A. Rigby, H. Saito, G. Savini, A.M.M. Scaife, M. Seta, Y. Shimajiri, H. Shinnaga, Y.-W. Tang, Y. Tsukamoto, S. Viti, H. Wang, H.-W. Yen, H. Yoo, J. Yuan, H.-S. Yun, T. Zenko, C.-P. Zhang, G. Zhang, Y. Zhang, J. Zhou, L. Zhu, Ph. André, C. D. Dowell, S.P.S. Eyres, S. Falle, S. van Loo, and J.-F. Robitaille
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- [141] “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.

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- [140] “5-Year Monitoring of 225 GHz Opacity at Thule Air Base (Pituffik), Greenland”
S. Matsushita, P.L. Martin-Cocher, S.N. Paine, C.-W. L. Huang, N.A. Patel, K. Asada, M.-T. Chen, P.T.P. Ho, M. Inoue, **P.M. Koch**, and T. Norton
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