Richard Teague

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Massachusetts Institute of Technology

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ACADEMIC APPOINTMENTS

07/26–present
Kerr–McGee Development Associate Professor
MIT, Department of Earth, Atmospheric and Planetary Sciences

07/22–06/26
Kerr–McGee Development Assistant Professor
MIT, Department of Earth, Atmospheric and Planetary Sciences

05/22–04/25
Research Associate
Smithsonian Astrophysical Observatory

09/19–04/22
Submillimeter Array Fellow
Center for Astrophysics · Harvard & Smithsonian

05/17–07/19
Postdoctoral Researcher
University of Michigan

01/17–04/17
Postdoctoral Researcher
Max-Planck-Institute for Astronomy

EDUCATION

2013–2017
Ph.D. in Astronomy (Magna Cum Laude)
Max-Planck-Institute for Astronomy, Heidelberg, Germany

2008–2013
MPhys Astrophysics (First Class Honours)
University of Edinburgh, Edinburgh, United Kingdom

AWARDS & HONORS

2026
NSF CAREER
Revealing the Influence of Magnetic Fields During the Formation of Planetary Systems

2026
AAS Fred Kavli Plenary Speaker
For pioneering work revealing the 3D kinematic velocity fields within planet-forming disks

2024
EAPS Community Builder Award
Recognition of an EAPS community member for exceptional service to EAPS

2022 **pH Lectureship**
Recognizes a CfA scientist who shows exceptional promise early in their career

2016 **Ernst Patzer Award**
Awarded for the best refereed publication by a young scientist

2010, 2011 **Pre-Honours Certificate of Merit**
Top 5% performance in pre-honours exams, University of Edinburgh

OBSERVATIONAL TIME & TELESCOPE PROPOSALS (AS PI)

Over 392 hours (600+ as co-I) awarded on ALMA as PI, including the exoALMA Large Program; 20 hours (165 as co-I) on IRAM; 46 hours (30 as co-I) on the SMA; 26 hours (18 as co-I) on JWST as co-PI; 6 hours on VLT/GRAVITY; 3 nights (9 as co-I) on Magellan. Selected PI proposals below.

2025 **Detecting and Characterizing Magnetic Fields in Two Disks through Zeeman Splitting**
ALMA, 47 hours, 2025.1.00304.S, B ranked · PI

2025 **Calibrating Disk Mass Measurement Techniques**
ALMA, 14 hours, 2025.1.00940.S, A ranked · PI

2022 **The Most Sensitive Search for Magnetic Fields in a Solar Nebula Analogue**
ALMA, 18 hours, 2022.1.00840.S, A ranked · PI

2021 **exoALMA Large Program**
ALMA, 183 hours, 2021.1.01123.L, A ranked · PI (co-PIs: Benisty, Facchini, Fukagawa & Pinte)

2021 **Is the Magneto-Rotational Instability Driving Protoplanetary Disk Evolution?**
SMA, 30 hours, 2020A-S033, A ranked · PI

2019 **Mapping the 3D Kinematic Structure of Planet Formation**
ALMA, 33.2 hours, 2019.1.00419.S, B ranked · PI

2018 **An Unambiguous Detection of a Magnetic Field in a Protoplanetary Disk**
ALMA, 6.7 hours, 2018.1.00980.S, A ranked · PI

INVITED TALKS & COLLOQUIA

Talks and colloquia since 2015, reverse chronological

06/26 **“Dynamics of Planet Formation”**
Perspectictives of Planet and Star Formation

04/26 **“Open Challenges in the Modeling and Interpretation of Protoplanetary Disk Observations”**
ML4Disks Workshop

03/26 **“From Pebbles to Planets: New Frontiers in Planet Formation”**
Caltech GPS Division Seminar

02/26 **“Searching for Turbulence: Methods, Limitations and Potential”**
Flatiron Workshop on Hydrodynamic and Dusty Turbulence in Protoplanetary Disks

01/26 **“The Search for Magnetic Fields in Protoplanetary Disks”**
MPIA Star and Planet Formation Seminar

01/26 **“The Search for Magnetic Fields in Protoplanetary Disks”**
ESO Star and Planet Formation Seminar

05/25 **“An Overview of the exoALMA Program”**
COST Action: PLANETS Seminar

04/25 **“How To Build a Solar System”**
Johns Hopkins & STScI Joint Colloquium

03/25 **“How To Build a Solar System”**
UC Berkeley Astronomy Colloquium

06/24 **“An Interferometric View of the Planet Formation Environment: Past, Present and Future”**
GRAVITY+: Impact on Star and Planet Formation

03/24 **“From Pebbles to Planets: What Gas Can Tell Us”**
McMaster Astronomy Colloquium

03/24 **“From Pebbles to Planets: What Gas Can Tell Us”**
Canadian Institute for Theoretical Astrophysics Colloquium

03/24 **“Molecular Probes of the Planet Formation Environment”**
Star to Planet Formation Workshop

02/24 **“From Pebbles to Planets: What Gas Can Tell Us”**
Munich Joint Astronomical Colloquium

02/24 **“exoALMA: Early Results and Future Outlook”**
Munich University Astronomy Colloquium

12/23 **“The Dynamical Structure of Planet Forming Disks”**
ALMA at 10 Years: Past, Present, and Future

06/23 **“Witnessing the Formation of Giant Planets and their Moons”**
Gordon Conference on the Origins of Solar Systems

05/23 **“Witnessing the Earliest Stages of Planet Formation”**
MATH + X: Planet Formation and Habitability

05/23 **“Witnessing the Formation of Giant Planets and their Moons”**
Boston University Astrophysics Seminar

04/23 **“Witnessing the Formation of Giant Planets and their Moons”**
MIT Haystack Colloquium

03/23 **“Witnessing the Formation of Giant Planets and their Moons”**
Ohio State University Astronomy Colloquium

02/23 **“Witnessing the Formation of Giant Planets and their Moons”**
Harvard University Department of Earth and Planetary Sciences Colloquium

10/22 **“ALMA’s 3D View of Planet Formation”**
From Clouds to Planets II: The Astrochemical Link

09/22 **“Exploring the Youngest Planetary Systems”**
Center for Astrophysics | Harvard & Smithsonian pH Lecture

02/22 **“Detecting the Youngest Planets”**
University of Florida Astronomy Colloquium

02/22 **“Detecting the Youngest Planets”**
Penn State CEHW Seminar Series

11/21 **“Detecting Molecular Line Polarization in Protoplanetary Disks”**
Pan-Experiment Galactic Science Group Seminar Series

10/21 **“Mapping the Assembly of Planetary Systems in 6 Dimensions”**
Munich Joint Astronomical Colloquium

09/21 **“Mapping the Assembly of Planetary Systems in 6 Dimensions”**
Center for Astrophysics | Harvard & Smithsonian Colloquium

05/21 **“Witnessing the Assembly of Planetary Systems”**
ETH Zurich Exoplanets & Habitability Seminar

05/21 **“Witnessing the Assembly of Planetary Systems”**
Cambridge Exoplanet Center Seminar

04/21 **“Transforming ALMA into a Planet Hunting Facility”**
Towards the Comprehensive Characterization of Exoplanets: Science at the Interface of Multiple Measurement Techniques

04/21 **“Witnessing the Assembly of Planetary Systems”**
McMaster University Astrophysics Seminar

03/21 **“Observations and Observational Predictions”**
Circumplanetary Disks II

02/21 **“Witnessing the Assembly of Planetary Systems”**
Max Planck Research Group Selection Symposium

02/21 **“Planet Formation in Six Dimensions”**
Caltech Dix Planetary Science Department Seminar

12/20 **“Observing the Kinematics of Gaseous Substructures”**
Five Years After HL Tau: A New Era in Planet Formation

10/20 **“Observing the Dynamics of Planet Disk Interactions”**
Research Unit Transition Disks (RUTD) Conference

07/20 **“Kinematical Detection and Characterizing of Protoplanets with ALMA”**
Exoplanets III

07/20 **“Visualizing the Assembly of Planetary Systems”**
MPIA Königstuhl Colloquium

11/19 **“Witnessing the Dynamics of Planetary Assembly”**
JPL Astrophysics Colloquium

10/19 **“Exploiting ALMA’s Potential for Planet Hunting”**
Visualizing the Kinematics of Planet Formation

06/19 **“Unveiling the Dynamics of Planet Formation”**
Gordon Research Seminar

04/19 **“The Physical Conditions of Planet Formation with Molecular Excitation”**
IAU Symposium 350: Laboratory Astrophysics

03/19 **“Unveiling the Dynamics of Planet Formation”**
Planet-Forming Disks

10/18 **“Observing the Kinematics of Planet-Disk Interactions with ALMA”**
NAOJ Theoretical Astronomy Seminar

08/18 **“Using Kinematics to Search for Embedded Protoplanets”**
LMU Munich Astronomy Colloquium

08/18 **“Kinematical Detections of Embedded Protoplanets”**
University of Tübingen Astronomy Seminar

04/18 **“The First Kinematic Detection of Embedded Protoplanets”**
Astrophysical Frontiers in the Next Decade and Beyond

02/18 **“A Spatially Resolved Search for Turbulence in TW Hya”**
Magnetic Fields or Turbulence

11/16 **“Measuring Turbulence in TW Hya with ALMA: Methods and Limitations”**
MPIA Patzer Awards Colloquium

11/16 **“Observing the Earliest Stages of Planet Formation”**
MPIA Königstuhl Colloquium

06/16 **“Detecting Turbulence in Protoplanetary Disks”**
Astrochemistry with ALMA Cycle 4

04/16 **“Turbulence in Protoplanetary Disks: Methods and Limitations”**
Sant-Cugat Forum on Astrophysics

03/16 **“Turbulence in TW Hya”**
Protoplanetary Discussions

01/15 **“Deuterium Fraction in Protoplanetary Disks”**
Chemical Diagnostics of Star and Planet Formation

01/15 **“Deuterium Fraction in DM Tau”**
ZAG – IPAG – MPIA Workshop on Planet Formation

TEACHING

2022–present **12.410 / 8.287: Observational Techniques for Optical Astronomy**
Instructor

2025–present **12.423 / 12.623: Planet Formation**
Instructor

2024 **12.S681: From Grains to Gas Giants: The Formation of Planetary Systems**
Instructor

2014 **Wavefront Analysis Laboratory**
Instructor

ADVISING & MENTORING

All students and postdocs are based at MIT unless otherwise noted

Ph.D. students **Leah Albrow** (2024–present) · **Isabella Macias** (2024–present) · **Jensen Pierce Thomas Lawrence** (2023–present)

MSc. students **Marco Duraku, Imperial College London** (2025–2026, MIT–Imperial Exchange) · **Amius Marshall De’Ath** (2024–2025, MIT–Imperial Exchange) · **Abigail Colclasure** (2024–2025)

Undergraduates **Headam Im** (2026–present) · **Jackson Holland** (2026) · **Erin Cusson** (2024–2026) · **Anika Nath** (2024) · **Carol Chen** (2022–2023) · **Aidan van Duzer** (2023) · **Anna Orgel** (2022–2023)

Academic advisor **Lily Jones** (2026–present) · **Jan Toomlaid** (2024–2026) · **Kaylee Barrera** (2023–2026) · **Anika Nath** (2023–2025)

Prior institutions	Co-supervised graduate and undergraduate students at the University of Michigan (Felipe Alcaron, Jenny Calahan, Deryl Long, Case Hazewinkel, Jeanne Kwon, 2018–2020), Harvard University (Alessandra Canta, 2020–2021), Beijing Normal University (Haochuan Yu, 2020–2022) and Ludwig Maximilian University (Julian Penzinger, 2016, 2018)

PROFESSIONAL SERVICE

Refereeing	**Referee for AAS journals, *A&A*, *MNRAS* and *Nature* journals · NESSF external reviewer** (2018, 2020)
Departmental (MIT/EAPS)	**EAPS Council, Junior Faculty Representative** (2025–present) · **CORE: Community, Outreach and Respect in EAPS** (2025–present) · **EAPS Department Lecture Series Planetary Science Representative** (2025–2026) · **EAPS Committee on the Education Program** (2023–2024) · **EAPS Distinguished Postdoctoral Fellowship Committee** (2022, 2025)
Workshop & conference SOCs	**Astrochemistry in the Broadband Era: ngVLA and ALMA WSU** (2025) · **Spatio-spectral Modeling of ALMA Data Cubes: ALMA-2030** (2024) · **exoALMA Start of Science Workshop** (2022) · **Vertical Shear Instability Meeting** (2022) · **SMA Interferometry School** (2021) · **Visualizing the Kinematics of Planet Formation** (2019)
Diversity, equity & inclusion	**Postdoc and Research Scientist DEI Representative** (2018–2019) · **Conversations on Equity and Inclusion Co-organizer** (2018–2019) · **Equi-Tea Organizer** (2018–2019)
Seminar organizing	**SMA Seminar Organizer** (2020–2021) · **Stars, Planets and Formation Seminar Organizer, UMich** (2018–2019) · **MPIA Student Representative & Workshop Organizer** (2015–2017) · **IMPRS Graduate Student Representative** (2013–2017)
Outreach	**"How to Find Baby Planets," University of Michigan Lowbrow Astronomers** (2020)

REFEREED PUBLICATIONS

179 refereed articles · 24 as first author · reverse chronological · titles are links to paper

2026

20 PAPERS

179 **First Detection of HC_5N in a Class II Disk around TW Hya**
Wampler, S. C., R. A. Loomis, A. Diop, et al.
The Astrophysical Journal, 1003, L30

178 **An SMA Molecular Inventory of the Edge-on Protoplanetary Disk Gomez's Hamburger**
Cusson, E. M., L. Wölfer, **R. Teague**, et al.
arXiv e-prints, arXiv:2605.26512

177 **The circumbinary disc of HD 34700A: II. Analysis of a strong dust asymmetry**
Fasano, D., M. Benisty, J. Stadler, et al.
Astronomy and Astrophysics, 709, A174

176 **Probing Dust in the MWC 480 Disk from Millimeter to Centimeter Wavelengths**
Shi, Y., F. Long, E. Macías, et al.
The Astrophysical Journal, 1001, 27

175 **exoALMA. XXIV. Formaldehyde Emission in Protoplanetary Disks of exoALMA Compared with Their Properties and Dynamical State**
Alarcón, F., S. Facchini, L. Trapman, et al.
The Astrophysical Journal, 1000, L32

174 **exoALMA. XXIII. Estimating Disk and Planet Properties from Dust Morphologies with DBNets 2.0**
Ruzza, A., G. Lodato, G. Rosotti, et al.
The Astrophysical Journal, 1000, L16

173 **exoALMA XXII: A Two-dimensional Atlas of Deviations from Keplerian Disks**
Fukagawa, M., A. F. Izquierdo, J. Stadler, et al.
The Astrophysical Journal, 1000, L15

172 **exoALMA. XXI. The Morphology and Dynamics of Vertical Flows**
Benisty, M., A. F. Izquierdo, J. Stadler, et al.
The Astrophysical Journal, 1000, L14

171 **exoALMA. XX. Tomographic Detection of Embedded Planets in Protoplanetary Disks**
Izquierdo, A. F., J. Bae, S. Facchini, et al.
The Astrophysical Journal, 1000, L13

170 **A Protoplanet Candidate in the PDS 66 Disk Indicated by Silicon Sulfide Isotopologues**
Yoshida, T. C., F. Alarcón, J. Bae, et al.
The Astrophysical Journal, 999, L22

169 **Benchmarking pre-main sequence stellar evolutionary tracks using disk-based dynamical stellar masses**
Zallio, L., M. Vioque, S. M. Andrews, et al.
Astronomy and Astrophysics, 708, L1

168 **AB Aur, a Rosetta stone for studies of planet formation: IV. C/O estimates from CS and SO interferometric observations**
Rivière-Marichalar, P., A. Fuente, R. le Gal, et al.
Astronomy and Astrophysics, 707, A348

167 **The circumbinary disk of HD34700A: I. CO gas kinematics indicate spirals, infall, and vortex motions**
Stadler, J., M. Benisty, F. Zagaria, et al.
Astronomy and Astrophysics, 707, A160

166 **A 2 au Resolution View by ALMA of the Planet-hosting WISPIT 2 Disk**
Facchini, S., P. Curone, M. Benisty, et al.
The Astrophysical Journal, 998, L16

165 **Tracing Pebble Drift History in Two Protoplanetary Disks with CO Enhancement**
Armitage, T., J. Williams, K. Zhang, et al.
The Astrophysical Journal, 998, 308

164 **exoALMA. XIX. Confirmation of Non-thermal Line Broadening in the DM Tau Protoplanetary Disk**
Hardiman, C., C. Pinte, D. J. Price, et al.
The Astrophysical Journal, 997, L47

163 **Physical and Chemical Characterization of GY 91's Multi-ringed Protostellar Disk with ALMA**
Jiang, S. D., J. Huang, I. Czekala, et al.
arXiv e-prints, arXiv:2601.18884

162 **A Submillimeter Survey of CS Excitation in Protoplanetary Disks: Evidence of X-Ray-driven Sulfur Chemistry**
Law, C. J., R. Le Gal, K. I. Öberg, et al.
The Astrophysical Journal, 997, 91

161 **Astrometric view of companions in the inner dust cavities of protoplanetary discs**
Vioque, M., R. A. Booth, E. Ragusa, et al.
Astronomy and Astrophysics, 705, A238

160 **The ^{12}CO gas structures of protoplanetary disks in the Upper Scorpius region**
Zallio, L., G. P. Rosotti, M. Vioque, et al.
Astronomy and Astrophysics, 705, A49

2025

31 PAPERS

159 **Spirals and Vertical Motions in the Planet-Forming Disk around HD 100546. A multi-line study of its gas kinematics**
Wölfer, L., A. F. Izquierdo, A. Booth, et al.
arXiv e-prints, arXiv:2512.13814

158 **Direct Measurement of Extinction in a Planet-hosting Gap**
Cugno, G., S. Facchini, F. Alarcon, et al.
The Astronomical Journal, 170, 317

157 **Satellites and Small Bodies With ALMA: Insights Into Solar System Formation and Evolution**
de Kleer, K., M. E. Brown, M. Cordiner, et al.
AGU Advances, 6, e2025AV001778

156 **Winding motion of spirals in a gravitationally unstable protoplanetary disk**
Yoshida, T. C., H. Nomura, K. Doi, et al.
Nature Astronomy, 9, 1672

155 **The Light Echo of a High-redshift Quasar Mapped with Lyα Tomography**
Eilers, A., M. Yue, J. Matthee, et al.
The Astrophysical Journal, 991, L40

154 **JWST-MIRI Observations of the Irradiated Chemistry in the Inner Disk Cavity of GM Aur**
Romero-Mirza, C. E., K. I. Öberg, A. Banzatti, et al.
The Astrophysical Journal, 991, 128

153 **Revealing Fine Structure in Protoplanetary Disks with Physics Constrained Neural Fields**
Levis, A., N. Luong, **R. Teague**, et al.
arXiv e-prints, arXiv:2509.03623

152 **A Radially Resolved Magnetic Field Threading the Disk of TW Hya**
Teague, R., B. Lankhaar, S. M. Andrews, et al.
The Astrophysical Journal, 991, L6

151 **exoALMA. XVIII. Interpreting Large-scale Kinematic Structures as Moderate Warping**
Winter, A. J., M. Benisty, A. F. Izquierdo, et al.
The Astrophysical Journal, 990, L10

150 **Leaky dust trap in the PDS 70 disc revealed by ALMA Band 9 observations**
Sierra, A., M. Benisty, P. Pinilla, et al.
Monthly Notices of the Royal Astronomical Society, 541, 3101

149 **SO Emission in the Dynamically Perturbed Protoplanetary Disks around CQ Tau and MWC 758**
Zagaria, F., H. Jiang, G. Cataldi, et al.
The Astrophysical Journal, 989, 30

148 **Inner disc and circumplanetary material in the PDS 70 system: Insights from multi-epoch, multi-frequency ALMA observations**
Fasano, D., M. Benisty, P. Curone, et al.
Astronomy and Astrophysics, 699, A373

147 **Radial variations in the nitrogen, carbon, and hydrogen fractionation in the PDS 70 planet-hosting disk**
Rampinelli, L., S. Facchini, M. Leemker, et al.
Astronomy and Astrophysics, 698, A115

146 **exoALMA. XVII. Characterizing the Gas Dynamics around Dust Asymmetries**
Wölfer, L., M. Barraza-Alfaro, **R. Teague**, et al.
The Astrophysical Journal, 984, L22

145 **exoALMA. XVI. Predicting Signatures of Large-scale Turbulence in Protoplanetary Disks**
Barraza-Alfaro, M., M. Flock, W. Béthune, et al.
The Astrophysical Journal, 984, L21

144 **exoALMA. XV. Interpreting the Height of CO Emission Layer**
Rosotti, G. P., C. Longarini, T. Paneque-Carreño, et al.
The Astrophysical Journal, 984, L20

143 **exoALMA. XIV. Gas Surface Densities in the RX J1604.3−2130 A Disk from Pressure-broadened CO Line Wings**
Yoshida, T. C., P. Curone, J. Stadler, et al.
The Astrophysical Journal, 984, L19

142 **exoALMA. XIII. Gas Masses from N_2H^+ and $C^{18}O$: A Comparison of Measurement Techniques for Protoplanetary Gas Disk Masses**
Trapman, L., C. Longarini, G. P. Rosotti, et al.
The Astrophysical Journal, 984, L18

141 **exoALMA. XII. Weighing and Sizing exoALMA Disks with Rotation Curve Modelling**
Longarini, C., G. Lodato, G. Rosotti, et al.
The Astrophysical Journal, 984, L17

140 **exoALMA. XI. ALMA Observations and Hydrodynamic Models of LkCa 15: Implications for Planetary Mass Companions in the Dust Continuum Cavity**
Gardner, C. H., A. Isella, H. Li, et al.
The Astrophysical Journal, 984, L16

139 **exoALMA. X. Channel Maps Reveal Complex ^{12}CO Abundance Distributions and a Variety of Kinematic Structures with Evidence for Embedded Planets**
Pinte, C., J. D. Ilee, J. Huang, et al.
The Astrophysical Journal, 984, L15

138 **exoALMA. IX. Regularized Maximum Likelihood Imaging of Non-Keplerian Features**
Zawadzki, B., I. Czekala, M. Galloway-Sprietsma, et al.
The Astrophysical Journal, 984, L14

137 **exoALMA. VIII. Probabilistic Moment Maps and Data Products Using Nonparametric Linear Models**
Hilder, T., A. R. Casey, D. J. Price, et al.
The Astrophysical Journal, 984, L13

136 **exoALMA. VII. Benchmarking Hydrodynamics and Radiative Transfer Codes**
Bae, J., M. Flock, A. Izquierdo, et al.
The Astrophysical Journal, 984, L12

135 **exoALMA. VI. Rotating under Pressure: Rotation Curves, Azimuthal Velocity Substructures, and Gas Pressure Variations**
Stadler, J., M. Benisty, A. J. Winter, et al.
The Astrophysical Journal, 984, L11

134 **exoALMA. V. Gaseous Emission Surfaces and Temperature Structures**
Galloway-Sprietsma, M., J. Bae, A. F. Izquierdo, et al.
The Astrophysical Journal, 984, L10

133 **exoALMA. IV. Substructures, Asymmetries, and the Faint Outer Disk in Continuum Emission**
Curone, P., S. Facchini, S. M. Andrews, et al.
The Astrophysical Journal, 984, L9

132 **exoALMA. III. Line-intensity Modeling and System Property Extraction from Protoplanetary Disks**
Izquierdo, A. F., J. Stadler, M. Galloway-Sprietsma, et al.
The Astrophysical Journal, 984, L8

131 **exoALMA. II. Data Calibration and Imaging Pipeline**
Loomis, R. A., S. Facchini, M. Benisty, et al.
The Astrophysical Journal, 984, L7

130 **exoALMA. I. Science Goals, Project Design, and Data Products**
Teague, R., M. Benisty, S. Facchini, et al.
The Astrophysical Journal, 984, L6

129 **Mapping the Merging Zone of Late Infall in the AB Aur Planet-forming System**
Speedie, J., R. Dong, **R. Teague**, et al.
The Astrophysical Journal, 981, L30

2024
14 PAPERS

128 **Chemistry in the GG Tau A Disk: Constraints from H_2D^+, N_2H^+, and DCO^+ High Angular Resolution ALMA Observations**
Kashyap, P., L. Majumdar, A. Dutrey, et al.
The Astrophysical Journal, 976, 258

127 **Kinematical signatures: Distinguishing between warps and radial flows**
Zuleta, A., T. Birnstiel, & **R. Teague**
Astronomy and Astrophysics, 692, A56

126 **Observational signatures of circumbinary discs - II. Kinematic signatures in velocity residuals**
Calcino, J., B. J. Norfolk, D. J. Price, et al.
Monthly Notices of the Royal Astronomical Society, 534, 2904

125 **Detection of Dimethyl Ether in the Central Region of the MWC 480 Protoplanetary Disk**
Yamato, Y., Y. Aikawa, V. V. Guzmán, et al.
The Astrophysical Journal, 974, 83

124 **Gravitational instability in a planet-forming disk**
Speedie, J., R. Dong, C. Hall, et al.
Nature, 633, 58

123 **ALMA high-resolution observations unveil planet formation shaping molecular emission in the PDS 70 disk**
Rampinelli, L., S. Facchini, M. Leemker, et al.
Astronomy and Astrophysics, 689, A65

122 **Outflow Driven by a Protoplanet Embedded in the TW Hya Disk**
Yoshida, T. C., H. Nomura, C. J. Law, et al.
The Astrophysical Journal, 971, L15

121 **On Kinematic Measurements of Self-gravity in Protoplanetary Disks**
Andrews, S. M., **R. Teague**, C. P. Wirth, et al.
The Astrophysical Journal, 970, 153

120 **Constraining the stellar masses and origin of the protostellar VLA 1623 system**
Sadavoy, S. I., P. Sheehan, J. J. Tobin, et al.
Astronomy and Astrophysics, 687, A308

119 **The First Spatially Resolved Detection of ^{13}CN in a Protoplanetary Disk and Evidence for Complex Carbon Isotope Fractionation**
Yoshida, T. C., H. Nomura, K. Furuya, et al.
The Astrophysical Journal, 966, 63

118 **The Carbon Isotopic Ratio and Planet Formation**
Bergin, E. A., A. Bosman, **R. Teague**, et al.
The Astrophysical Journal, 965, 147

117 **Mapping the Vertical Gas Structure of the Planet-hosting PDS 70 Disk**
Law, C. J., M. Benisty, S. Facchini, et al.
The Astrophysical Journal, 964, 190

116 **High turbulence in the IM Lup protoplanetary disk. Direct observational constraints from CN and C_2H emission**

Paneque-Carreño, T., A. F. Izquierdo, **R. Teague**, et al.

Astronomy and Astrophysics, 684, A174

115 **JWST-MIRI Spectroscopy of Warm Molecular Emission and Variability in the AS 209 Disk**

Romero-Mirza, C. E., K. I. Öberg, A. Banzatti, et al.

The Astrophysical Journal, 964, 36

2023

17 PAPERS

114 **Protoplanetary disks in K_s-band total intensity and polarized light**

Ren, B. B., M. Benisty, C. Ginski, et al.

Astronomy and Astrophysics, 680, A114

113 **MAPS: Constraining Serendipitous Time Variability in Protoplanetary Disk Molecular Ion Emission**

Waggoner, A. R., L. I. Cleeves, R. A. Loomis, et al.

The Astrophysical Journal, 956, 103

112 **A Magnetically Driven Disk Wind in the Inner Disk of PDS 70**

Campbell-White, J., C. F. Manara, M. Benisty, et al.

The Astrophysical Journal, 956, 25

111 **MagAO-X and HST High-contrast Imaging of the AS209 Disk at Hα**

Cugno, G., Y. Zhou, T. Thanathibodee, et al.

The Astronomical Journal, 166, 162

110 **Three-dimensional magnetic field imaging of protoplanetary disks using Zeeman broadening and linear polarization observations**

Lankhaar, B. & **R. Teague**

Astronomy and Astrophysics, 678, A17

109 **Constraining the gas distribution in the PDS 70 disc as a method to assess the effect of planet-disc interactions**

Portilla-Revelo, B., I. Kamp, S. Facchini, et al.

Astronomy and Astrophysics, 677, A76

108 **Implications for Chondrule Formation Regions and Solar Nebula Magnetism from Statistical Reanalysis of Chondrule Paleomagnetism**

Fu, R. R., S. C. Steele, J. B. Simon, et al.

The Planetary Science Journal, 4, 151

107 **Observational signatures of circumbinary discs - I. Kinematics**

Calcino, J., D. J. Price, C. Pinte, et al.

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