

CONTACT INFORMATION	<p>Ludwig-Maximilians-Universität München Universitätssternwarte Scheinerstr. 1 81679 München Germany</p>	<p>phone +49 (0) 89 2180 6973 web: www.til-birnstiel.de email: til.birnstiel@lmu.de</p>
POSITIONS	<p>Professor for Theoretical Astrophysics 02/2017 – now at the Ludwig-Maximilians-Universität München, Germany</p> <p>Postdoctoral Researcher 09/2015 – 01/2017 at the Max-Planck-Institute for Astronomy, Heidelberg, Germany Advisor: <i>PD Dr. Hubert Klahr</i></p> <p>Research Associate 09/2015 – 08/2021 at the Harvard-Smithsonian Center for Astrophysics Cambridge, MA, USA</p> <p>Postdoctoral Fellow 01/2013 – 08/2015 at the Harvard-Smithsonian Center for Astrophysics Cambridge, MA, USA Advisor: <i>Dr. Sean M. Andrews</i></p> <p>Postdoctoral Researcher 07/2011 – 12/2012 at the Excellence Cluster 'Universe', Garching, Germany and at the University Observatory, LMU, Munich, Germany Advisor: <i>Prof. Dr. Barbara Ercolano</i></p> <p>Postdoctoral Researcher 10/2010 – 06/2011 at the Max-Planck-Institute for Astronomy, Heidelberg, Germany Advisor: <i>Prof. Dr. Cornelis P. Dullemond</i></p>	
STUDIES	<p>Ph.D. Astronomy 09/2007–10/2010 University of Heidelberg & Max-Planck-Institute for Astronomy, Germany Thesis: <i>The Evolution of Gas and Dust in Protoplanetary Accretion Disks</i> Advisor: <i>Prof. Dr. Cornelis P. Dullemond</i> Grade: <i>1.0, magna cum laude</i></p> <p>M.S. Physics 08/2006 – 08/2007 State University of New York at Albany, USA Scholarship from the international office of the University of Würzburg Thesis: <i>Bayesian Estimation of the Diffusion Tensor</i> Advisor: <i>Prof. Dr. Kevin H. Knuth</i> GPA: <i>4 of 4</i></p> <p>Graduate studies in physics 10/2005 – 07/2006 Julius-Maximilians-Universität, Würzburg, Germany</p>	

	Vordiplom in physics	08/2005
	Julius-Maximilians-Universität, Würzburg, Germany	
	Major: <i>physics</i>	
	Minor: <i>mathematics & chemistry</i>	
	Undergraduate studies	10/2003 – 09/2005
	Julius-Maximilians-Universität, Würzburg, Germany	
COMMUNITY SERVICE	Civilian Service	09/2002 – 09/2003
	Roland Eller environmental center, Hobbach, Germany	
	<i>conducted volunteering work via a “Freiwilliges Ökologisches Jahr”</i>	
SCHOOLING	High School / Abitur	09/1993 – 08/2002
	general qualification for university entrance	
	Hermann-Staudinger-Gymnasium	
	Erlenbach am Main, Germany	
	Elementary School	09/1989 – 08/1993
	Johannes Obernburger Grundschule	
	Obernburg am Main, Germany	
RESEARCH INTERESTS	growth and transport of solids in protoplanetary disks; astrophysics and astrochemistry of planet formation; laboratory studies related to planet formation and optical properties of solids; structure and evolution of protoplanetary disks; radiative transfer and predicting observables of disks and planet formation; comparison to observations; meteoritics and planetary sciences; Bayesian data analysis and MCMC methods; high performance computing;	
TALKS		
	University of Bonn Physics Colloquium	Bonn, GER 01/2025
	Formation of the protosolar disk & first planetesimals	Collège de France, Paris, FRA 06/2024
	Invited Talk: MIAPbP Program: Habitability	MIAPbP Garching, GER 05/2024
	Invited Talk	Germ. ngVLA community conf. 10/2023
	Coauthor Chapter	Protostars & Planets VII 04/2023
	Astrophysical Colloquium	Leicester University 05/2022
	Astrophysical Software Prize 2021 Talk	German Astronom. Soc., online 09/2021
	Inv. Review	Sagan Summer School, online 07/2021
	Königstuhl Colloquium	Heidelberg, GER 07/2021
	Inv. Colloquium	University of Bern, SWI 12/2019
	Inv. Colloquium	University of Amsterdam, NLD 11/2019
	Inv. talk: Accretion 2019	Ringberg Castle, GER 07/2019
	Inv. talk: EWASS - PPDs: birth places of planets	Lyon, FRA 06/2019
	Inv. talk: Challenges in planet formation	Faltiron Institute, NY, USA 05/2019
	Inv. talk: IAUS 350 - Laboratory Astrophysics	U. of Cambridge, UK 04/2019
	Inv. colloquium	U. of St. Andrews 04/2019
	Inv. talk: Planet-Forming Disks	Villa Vigoni, ITA 03/2019
	Inv. talk: Water during planet formation	U. of Zurich, SWI 02/2018
	Physics Colloquium	U. of Duisburg, GER 11/2017
	StarPlan Seminar	Copenhagen, DEN 10/2017

PPD Gathering	LANL, USA	08/2017
ICS Colloquium, Univ. Zürich	Zürich, SWI	04/2017
Munich Physics Colloquium	Munich, GER	11/2016
Königstuhl Colloquium	Heidelberg, GER	11/2016
Missing links from disks to planets	Budapest, HUN	10/2016
GER-JPN Planet Formation Conference	Ishigaki, JPN	09/2016
Multiple Faces of Interstellar Dust	MPE, Garching, GER	09/2016
Linking Exoplanet and Disk Compositions	STSci, Baltimore, USA	09/2016
Origins of Habitable Planets	Univ. of Gothenburg, SWE	05/2016
Workshop on Young Solar Systems	Sant Cugat, ESP	04/2016
Early Earth Evolution	Cologne University, GER	04/2016
Institute Seminar	Arcetri Observatory, ITA	02/2016
Institute Seminar	Bordeaux, FRA	11/2015
Inv. talk: From clouds to PPDs	Berlin, GER	10/2015
Invited Review: IAU Symposium 314	Atlanta, USA	05/2015
Astrophysics Seminar	IAS Princeton, USA	04/2015
Lorentz Workshop: Transition Disks	Leiden, NLD	03/2015
Inv. review: ISSI Beijing Workshop	Beijing, CHN	08/2014
Inv. review: 7th meeting on Cosmic Dust	Osaka, JPN	08/2014
Astrochemistry Seminar	Leiden Observatory, NLD	01/2014
Inv. colloquium	IPAG, Grenoble, FRA	01/2014
Inv. colloquium	U. at Albany, USA	09/2013
Postdoc Symposium	Harvard-Smiths. CfA, USA	10/2013
Conf: Dust Growth 2013	Heidelberg, GER	07/2013
Inv. review: From Dust to Rocks to Planets	Waiokola, HI, USA	04/2013
Seminar	LANL, Los Alamos, USA	03/2013
Star Formation Seminar	Harvard-Smiths. CfA, USA	03/2013
Excellence Cluster Science Day	Garching, GER	12/2012
Conf.: Instabilities & Structures in PPDs	Marseille, FRA	09/2012
Conf.: Planet Formation & Evolution	Munich, GER	09/2012
ESO SPF meeting	Garching, GER	05/2012
Cluster Colloquium	Universe Cluster, GER	02/2012
Inv. seminar	U. of Hawaii, Honolulu, USA	11/2011
Inv. review: Baroclinic Instability in Disks	Ringberg Castle, GER	06/2011
Inv. colloquium	USM, Munich, GER	05/2011
Group Seminar	U. of Kyoto, JPN	02/2011
Group Seminar	U. of Nagoya, JPN	02/2011
Lab Seminar	ILTS, Sapporo, JPN	02/2011
Conf.: Planet formation and evolution	U. of Göttingen, GER	02/2011
Group Seminar	MPIK, Heidelberg, GER	02/2011
Star & Planet Formation Talk	ESO, Garching, GER	01/2011
ITA Colloquium	U. of Heidelberg, GER	12/2010
Conf.: Planetary Population Synthesis	Ringberg Castle, GER	12/2010
Journal Club Talk	UMich, Ann Arbor, USA	11/2010
JILA Talk	UC Boulder, USA	11/2010
RG Lunch Talk	Harvard-Smiths. CfA, USA	11/2010
MPIA Student Workshop	Norden, GER	05/2010
PSF Seminar	MPIA, Heidelberg, GER	07/2009
DAAD Kickoff Meeting	MPIA, Heidelberg, GER	06/2009
MPIA PSF Retreat	Maulbronn, GER	10/2008
DFG Group Video Seminar	MPIA, Heidelberg, GER	08/2008
Joint Theory Seminar	MPIA, Heidelberg, GER	10/2008
MPIA PSF Retreat	Jena, GER	10/2007

POSTER	224th Meeting of the AAS	Boston, USA	07/2014
CONTRIBUTIONS	Origins of Stars and their Plan. Systems	Hamilton, CAN	06/2012
	Herschel's View on Star and Plan. Formation	Grenoble, FRA	03/2012
	Formation of the First Solids	Kauai Island, USA	11/2011
	From Circumstellar Disks to Plan. Systems	Garching, GER	11/2009
	Planetesimal Formation	Cambridge, GBR	09/2009
	Planet Formation and Evolution	Tübingen, GER	03/2009
	New Light on Young Stars	Pasadena, USA	10/2008

TEACHING &
SUPERVISION

- Supervision of postdocs:
 - Dr. Nicolas Kaufmann* 2025 – present
 - Dr. Alexandros Ziampras* 2024 – present
 - Dr. Asmita Bhandare* 2023 – present
 - Dr. Sebastian Stammer* 2018 – present
 - Dr. Joanna Drązkowska* 2018 – 2022
- Supervision of students:
 - Sreejita Das* (PhD) 2024 – present
 - Giovanni Tedeschi* (PhD) 2022 – present
 - Luca Delussu* (PhD) 2021 – 2025
 - Tommy Lau* (PhD) 2021 – 2024
 - Andres Zuleta* (Master's) 2024
 - Thomas Pfeil* (PhD) 2020 – 2024
 - Fabian Binkert* (PhD) 2020 – 2023
 - Giovanni Tedeschi* (Master's) 2022
 - Sandro Paetzold* (Master's) 2021 – 2022
 - Vignesh Vaikundaraman* (Master's) 2022
 - Levi Walls* (Master's) 2021
 - Anna Ivleva* (Bachelor's) 2020
 - Matías Gárate* (PhD) 2017 – 2020
 - Anirudh Sharma* (Master's) 2019 – 2020
 - Andreas Bartenschlager* (Bachelor's) 2019
 - Apostolos Zormpas* (PhD) 2018 – 2022
 - Bernat Ferrer* (Master's) 2018 – 2019
 - Sen Tian* (Master's) 2018 – 2019
 - Pablo Navarro* (Bachelor's) 2018
- Co-supervision of students:
 - Riccardo Franceschi* (PhD) 2019 – 2023
 - Giovanni Rosotti* (PhD 05/2015) 2011 – 2014
 - Fredrik Windmark* (PhD 11/2013) 2010 – 2013
 - Paola Pinilla* (PhD 07/2013) 2010 – 2013
 - Christian Lenz* (Masters) 2015 – 2016
 - Christian Lenz* (PhD) 2016 – 2020
- Teaching of Masters and Bachelors courses at LMU Munich 2012, 2017 - now
 - Introduction to Scientific Programming* (Bachelor's)
 - Formation & Evolution of Planets in Protoplanetary Discs* (Master's)
 - Introduction to Radiative Transfer in Astrophysics* (Master's)

Essentials of Modern Astrophysics (Master's)
Astrophysik I (Bachelor's)

- Outreach Talk at “Observatory Stuttgart” 2024
- Teacher’s Education Seminar at “Fachakademie Dillingen” 2024
- Public Outreach Talk at “Deutsches Museum” 2022
- Public Outreach Talk at “Faszination Astronomie Online” 2022
- Invited Review at “Sagan Summer School” 2021
- Lectures at “Quantenphysik in der Schule” (teacher’s seminar) 2019
- Lectures for Teacher Seminars, Deutsches Museum, Unitag 2019
- HGSFP Winter School Lecture: "Planet Formation", Obergurgl, AUT 2019
- Lectures for "Probestudium Physik" yearly, 2017 – present
- CAE’s Teaching Excellence Workshop for Astronomy 06/2014
- Supervision of research internships at Excellence Cluster "Universe" 2012
- Physics Lab Course for Medical Students 2010
University of Heidelberg, Germany

GRANTS AND
AWARDS

- Ranked as "Highly Cited Scientist" by Clarivate Analytics (2023)
- Successful ERC Consolidator Grant Proposal 2023 (~ 2 Million € funding)
- 2024 New Horizons in Physics Award, Breakthrough Foundation (100 000 €)
- Co-author of Chapter in “Protostars & Planets VII”, Arizona Univ. Press, 2023
- Astrophysical Software Award 2020, German Astronomical Society (6 000 €)
- 2 accepted DFG Grants within FOR 2634/2 (2020) (~ 410k € funding)
- Accepted DFG Grant within SPP1992 (2020) (~ 210k € funding)
- Accepted MIAPP Workshop 2021 (~ 80k € funding)
- co-PI of DFG Excellence Cluster ORIGINS (EXC 2094)
- co-PI of DFG Research Unit FOR 2634/1
- Successful ERC Starting Grant Proposal 2016 (~ 1.4 Million € funding)
- A-rated ERC Starting Grant Proposal 2014
- Accepted Summer Program for Aspen Center for Physics 2018
- Co-author of Chapter in “Protostars & Planets VI”, Arizona Univ. Press, 2014

CONFERENCE
ORGANIZATION

- SOC member of conference *Follow the Monarchs: A Journey to Explore the Cosmos at (Sub)milliarcsecond Scales with the ngVLA* (Morelia, 2024)
- SOC member of conference *From Clouds to Planet II* (Berlin, 2022)
- Main Organizer of MIAPP workshop *Gaps, Rings, Spirals, And Vortices: Structure Formation In Planet-Forming Disks* (Munich, 2021)
- Organizer of Aspen Center of Physics Workshop *Unveiling the Physics of Protoplanet Formation: Connecting Theory to Observations* (Aspen, 2018)
- SOC member of conference *Take a closer look - The innermost region of protoplanetary disks* (Garching 2018)
- SOC member of conference *Missing links from disks to planets* (Budapest 2016)
- SOC member & LOC chair of conference *Planet Formation and Evolution 2012* (~200 participants)

OTHER DUTIES

- Co-organizer of the Munich Physics Colloquium Series (2016-present)
- Referee for A&A, MNRAS, ApJ, Nature, Icarus, NASA, ERC CoG, ERC AdG, DFG, ANR, MPG, Fullbright Commission, ALMA, and others.
- Contributor to various local media outlets (Süddeutsche Zeitung, BR2, BR5, Kaffee & Kosmos, Deutsches Museum ...)
- Organizing Committee of Königstuhl Colloquium Series at the Max-Planck-Institute for Astronomy (2016-2017)
- Organizing of RG Department Seminar Series at the Harvard-Smithsonian Center for Astrophysics (2013-2015)
- Organizer and co-organizer of several public outreach talks, guided tours, open house activities at MPIA
- Author of popular science articles in “Sterne und Weltraum” (german popular science magazine)
- Webmaster of the MPIA Planet and Star Formation department (2008-2011)

REFEREED
PUBLICATIONS

137. Zhao, Lau, **Birnstiel**, Stammler, Drażkowska: *Planetesimal formation in a pressure bump induced by infall*, arXiv e-prints (2025), arXiv:2501.17857Z
136. Ziampras, Dullemond, **Birnstiel**, Benisty, Nelson: *Spirals, rings, and vortices shaped by shadows in protoplanetary disks: from radiative hydrodynamical simulations to observable signatures*, arXiv e-prints (2024), arXiv:2410.13932
135. Zuleta, **Birnstiel**, and Teague: *Kinematical signatures: Distinguishing between warps and radial flows*, A&A (2024), vol. 692, A56.
134. Pfeil, **Birnstiel**, and Klahr: *TriPoD: Tri-Population size distributions for Dust evolution: Coagulation in vertically integrated hydrodynamic simulations of protoplanetary disks*, A&A (2024), vol. 691, A45.
133. Jorquera, Bonnefoy, Pérez, Chauvin, Aguinaga, Dougados, Julo, Demars, Andrews, Ricci, Zhu, Kurtovic, Cuello, Bai, **Birnstiel**, Dullemond, and Guzmán: *VLT/MUSE Detection of Accretion/Ejection Associated with the Close Stellar Companion in the HT Lup System*, ApJ (2024), vol. 976, 42.

132. Huang, Ansdell, **Birnstiel**, Czekala, Long, Williams, Zhang, and Zhu: *High-resolution ALMA Observations of Richly Structured Protoplanetary Disks in Orionis*, ApJ (2024), vol. 976, 132.
131. **Birnstiel**: *Dust Growth and Evolution in Protoplanetary Disks*, ARA&A (2024), vol. 62, 157.
130. Derkink, Ginski, Pinilla, Kurtovic, Kaper, de Koter, Vægård, Mamajek, Backs, Benisty, **Birnstiel**, Columba, Dominik, Garufi, Hogerheijde, van Holstein, Huang, Ménard, Rab, Ramírez-Tannus, Ribas, Williams, and Zurlo: *Disk Evolution Study Through Imaging of Nearby Young Stars (DESTINYs): PDS 111, an old T Tauri star with a young-looking disk*, A&A (2024), vol. 688, A149.
129. Lau, **Birnstiel**, Drażkowska, and Stammler: *Sequential giant planet formation initiated by disc substructure*, A&A (2024), vol. 688, A22.
128. Carvalho, Pérez, Sierra, Mellado, Hillenbrand, Andrews, Benisty, **Birnstiel**, Carpenter, Guzmán, Huang, Isella, Kurtovic, Ricci, and Wilner: *A Dust-trapping Ring in the Planet-hosting Disk of Elias 2-24*, ApJ (2024), vol. 971, 129.
127. Delussu, **Birnstiel**, Miotello, Pinilla, Rosotti, and Andrews: *Population synthesis models indicate a need for early and ubiquitous disk substructures*, A&A (2024), vol. 688, A81.
126. Pfeil, **Birnstiel**, and Klahr: *Vertical shear instability with dust evolution and consistent cooling times. On the importance of the initial dust distribution*, A&A (2024), vol. 687, L5.
125. Ginski, Garufi, Benisty, Tazaki, Dominik, Ribas, Engler, **Birnstiel**, Chauvin, Columba, Facchini, Goncharov, Hagelberg, Henning, Hogerheijde, van Holstein, Huang, Muto, Pinilla, Kanagawa, Kim, Kurtovic, Langlois, Manara, Milli, Momose, Orihara, Pawellek, Pinte, Rab, Schmidt, Snik, Wahhaj, Williams, and Zurlo: *The SPHERE view of the Chamaeleon I star-forming region. The full census of planet-forming disks with GTO and DESTINYs programs*, A&A (2024), vol. 685, A52.
124. Vægård, Ginski, Derkink, Garufi, Dominik, Ribas, Williams, Benisty, **Birnstiel**, Facchini, Columba, Hogerheijde, van Holstein, Huang, Kenworthy, Manara, Pinilla, Rab, Sulaiman, and Zurlo: *Disk Evolution Study Through Imaging of Nearby Young Stars (DESTINYs): The SPHERE view of the Orion star-forming region*, A&A (2024), vol. 685, A54.
123. Gupta, Miotello, Williams, **Birnstiel**, Kuffmeier, and Yen: *TIPSY: Trajectory of In-falling Particles in Streamers around Young stars. Dynamical analysis of the streamers around S CrA and HL Tau*, A&A (2024), vol. 683, A133.
122. Columba, Rigliaco, Gratton, Mesa, D’Orazi, Ginski, Engler, Williams, Bae, Benisty, **Birnstiel**, Delorme, Dominik, Facchini, Menard, Pinilla, Rab, Ribas, Squicciarini, van Holstein, and Zurlo: *Disk Evolution Study Through Imaging of Nearby Young Stars (DESTINYs): HD 34700 A unveils an inner ring*, A&A (2024), vol. 681, A19.
121. Pfeil, **Birnstiel**, and Klahr: *Dust Coagulation Reconciles Protoplanetary Disk Observations with the Vertical Shear Instability. I. Dust Coagulation and the VSI Dead Zone*, ApJ (2023), vol. 959, 121.
120. Gárate, **Birnstiel**, Pinilla, Andrews, Franz, Stammler, Picogna, Ercolano, Miotello, and Kurtovic: *Millimeter emission in photoevaporating disks is determined by early substructures*, A&A (2023), vol. 679, A15.
119. Binkert, Szulágyi, and **Birnstiel**: *Three-dimensional dust stirring by a giant planet embedded in a protoplanetary disc*, MNRAS (2023), vol. 523, 55.

118. Miotello, Kamp, **Birnstiel**, Cleeves, and Kataoka: *Setting the Stage for Planet Formation: Measurements and Implications of the Fundamental Disk Properties*, *Protostars and Planets VII* (2023), vol. 534, 501.
117. Delage, Gárate, Okuzumi, Yang, Pinilla, Flock, Stammer, and **Birnstiel**: *The impact of dust evolution on the dead zone outer edge in magnetized protoplanetary disks*, *A&A* (2023), vol. 674, A190.
116. Binkert and **Birnstiel**: *Carbon depletion in the early Solar system*, *MNRAS* (2023), vol. 520, 2055.
115. Rigliaco, Gratton, Ceppi, Ginski, Hogerheijde, Benisty, **Birnstiel**, Dima, Facchini, Garufi, Bae, Langlois, Lodato, Mamajek, Manara, Ménard, Ribas, and Zurlo: *Disk Evolution Study Through Imaging of Nearby Young Stars (DESTINYs): Characterization of the young star T CrA and its circumstellar environment*, *A&A* (2023), vol. 671, A82.
114. Franceschi, **Birnstiel**, Henning, and Sharma: *Constraining the turbulence and the dust disk in IM Lup: Onset of planetesimal formation*, *A&A* (2023), vol. 671, A125.
113. Gupta, Miotello, Manara, Williams, Facchini, Beccari, **Birnstiel**, Ginski, Hacar, Küffmeier, Testi, Tychoniec, and Yen: *Reflections on nebulae around young stars. A systematic search for late-stage infall of material onto Class II disks*, *A&A* (2023), vol. 670, L8.
112. Stammer, Lichtenberg, Drażkowska, and **Birnstiel**: *Leaky dust traps: How fragmentation impacts dust filtering by planets*, *A&A* (2023), vol. 670, L5.
111. Valegård, Ginski, Dominik, Bae, Benisty, **Birnstiel**, Facchini, Garufi, Hogerheijde, van Holstein, Langlois, Manara, Pinilla, Rab, Ribas, Waters, and Williams: *Disk Evolution Study Through Imaging of Nearby Young Stars (DESTINYs): Scattered light detection of a possible disk wind in RY Tau*, *A&A* (2022), vol. 668, A25.
110. Lau, Drażkowska, Stammer, **Birnstiel**, and Dullemond: *Rapid formation of massive planetary cores in a pressure bump*, *A&A* (2022), vol. 668, A170.
109. Stadler, Gárate, Pinilla, Lenz, Dullemond, **Birnstiel**, and Stammer: *The impact of dynamic pressure bumps on the observational properties of protoplanetary disks*, *A&A* (2022), vol. 668, A104.
108. Burn, Emsenhuber, Weder, Völkel, Klahr, **Birnstiel**, Ercolano, and Mordasini: *Toward a population synthesis of disks and planets. I. Evolution of dust with entrainment in winds and radiation pressure*, *A&A* (2022), vol. 666, A73.
107. Stammer and **Birnstiel**: *DustPy: A Python Package for Dust Evolution in Protoplanetary Disks*, *ApJ* (2022), vol. 935, 35.
106. Samra, Helling, and **Birnstiel**: *Mineral snowflakes on exoplanets and brown dwarfs. Coagulation and fragmentation of cloud particles with HYLANDS*, *A&A* (2022), vol. 663, A47.
105. Huang, Ginski, Benisty, Ren, Bohn, Choquet, Öberg, Ribas, Bae, Bergin, **Birnstiel**, Boehler, Facchini, Harsono, Hogerheijde, Long, Manara, Ménard, Pinilla, Pinte, Rab, Williams, and Zurlo: *Disk Evolution Study through Imaging of Nearby Young Stars (DESTINYs): A Panchromatic View of DO Tau's Complex Kilo-astronomical-unit Environment*, *ApJ* (2022), vol. 930, 171.
104. Zormpas, **Birnstiel**, Rosotti, and Andrews: *A large population study of protoplanetary disks. Explaining the millimeter size-luminosity relation with or without substructure*, *A&A* (2022), vol. 661, A66.

103. Franz, Picogna, Ercolano, Casassus, **Birnstiel**, Rab, and Pérez: *Dust entrainment in photoevaporative winds: Synthetic observations of transition disks*, A&A (2022), vol. 659, A90.
102. Stammler and **Birnstiel**: *Simframe: A Python Framework for Scientific Simulations*, The Journal of Open Source Software (2022), vol. 7, 3882.
101. Franz, Ercolano, Casassus, Picogna, **Birnstiel**, Pérez, Rab, and Sharma: *Dust entrainment in photoevaporative winds: Densities and imaging*, A&A (2022), vol. 657, A69.
100. Franceschi, **Birnstiel**, Henning, Pinilla, Semenov, and Zormpas: *Mass determination of protoplanetary disks from dust evolution*, A&A (2022), vol. 657, A74.
99. Miller, Marino, Stammler, Pinilla, Lenz, **Birnstiel**, and Henning: *The formation of wide exoKuiper belts from migrating dust traps*, MNRAS (2021), vol. 508, 5638.
98. Gárate, Delage, Stadler, Pinilla, **Birnstiel**, Stammler, Picogna, Ercolano, Franz, and Lenz: *Large gaps and high accretion rates in photoevaporative transition disks with a dead zone*, A&A (2021), vol. 655, A18.
97. Binkert, Szulágyi, and **Birnstiel**: *First 3D grid-based gas-dust simulations of circumstellar discs with an embedded planet*, MNRAS (2021), vol. 506, 5969.
96. Ueda, Flock, and **Birnstiel**: *Thermal Wave Instability as an Origin of Gap and Ring Structures in Protoplanetary Disks*, ApJ (2021), vol. 914, L38.
95. Drażkowska, Stammler, and **Birnstiel**: *How dust fragmentation may be beneficial to planetary growth by pebble accretion*, A&A (2021), vol. 647, A15.
94. Jorquera, Pérez, Chauvin, Benisty, Zhu, Isella, Huang, Ricci, Andrews, Zhang, Carpenter, Kurtovic, and **Birnstiel**: *A Search for Companions via Direct Imaging in the DSHARP Planet-forming Disks*, AJ (2021), vol. 161, 146.
93. Ginski, Facchini, Huang, Benisty, Vaendel, Stapper, Dominik, Bae, Ménard, Muro-Arena, Hogerheijde, McClure, van Holstein, **Birnstiel**, Boehler, Bohn, Flock, Mamajek, Manara, Pinilla, Pinte, and Ribas: *Disk Evolution Study Through Imaging of Nearby Young Stars (DESTINYs): Late Infall Causing Disk Misalignment and Dynamic Structures in SU Aur*, ApJ (2021), vol. 908, L25.
92. van der Marel, **Birnstiel**, Garufi, Ragusa, Christiaens, Price, Sallum, Muley, Francis, and Dong: *On the Diversity of Asymmetries in Gapped Protoplanetary Disks*, AJ (2021), vol. 161, 33.
91. Ginski, Ménard, Rab, Mamajek, van Holstein, Benisty, Manara, Asensio Torres, Bohn, **Birnstiel**, Delorme, Facchini, Garufi, Gratton, Hogerheijde, Huang, Kenworthy, Langlois, Pinilla, Pinte, Ribas, Rosotti, Schmidt, van den Ancker, Wahhaj, Waters, Williams, and Zurlo: *Disk Evolution Study Through Imaging of Nearby Young Stars (DESTINYs): A close low-mass companion to ET Cha*, A&A (2020), vol. 642, A119.
90. Lenz, Klahr, **Birnstiel**, Kretke, and Stammler: *Constraining the parameter space for the solar nebula. The effect of disk properties on planetesimal formation*, A&A (2020), vol. 640, A61.
89. Li, Li, Li, **Birnstiel**, Drażkowska, and Stammler: *Planet-induced Vortices with Dust Coagulation in Protoplanetary Disks*, ApJ (2020), vol. 892, L19.
88. Franz, Picogna, Ercolano, and **Birnstiel**: *Dust entrainment in photoevaporative winds: The impact of X-rays*, A&A (2020), vol. 635, A53.
87. Gárate, **Birnstiel**, Drażkowska, and Stammler: *Gas accretion damped by dust back-reaction at the snow line*, A&A (2020), vol. 635, A149.

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