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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 Julius-Maximilians-Universität, Würzburg, Germany Major: <i>physics</i> Minor: <i>mathematics & chemistry</i>	08/2005
	Undergraduate studies Julius-Maximilians-Universität, Würzburg, Germany	10/2003 – 09/2005
COMMUNITY SERVICE	Civilian Service Roland Eller environmental center, Hobbach, Germany <i>conducted volunteering work via a “Freiwilliges Ökologisches Jahr”</i>	09/2002 – 09/2003
SCHOOLING	High School / Abitur general qualification for university entrance Hermann-Staudinger-Gymnasium Erlenbach am Main, Germany	09/1993 – 08/2002
	Elementary School Johannes Obernburger Grundschule Obernburg am Main, Germany	09/1989 – 08/1993
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		
	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 of students:		
	<i>Giovanni Tedeschi</i> (PhD)		2022 – present
	<i>Luca Delussu</i> (PhD)		2021 – present
	<i>Tommy Lau</i> (PhD)		2021 – present
	<i>Andres Zuleta</i> (Master's)		2024
	<i>Thomas Pfeil</i> (PhD)		2020 – 2024
	<i>Fabian Binkert</i> (PhD)		2020 – 2023
	<i>Giovanni Tedeschi</i> (Master's)		2022
	<i>Sandro Paetzold</i> (Master's)		2021 – 2022
	<i>Vignesh Vaikundaraman</i> (Master's)		2022
	<i>Levi Walls</i> (Master's)		2021
	<i>Anna Ivleva</i> (Bachelor's)		2020
	<i>Matías Gárate</i> (PhD)		2017 – 2020
	<i>Anirudh Sharma</i> (Master's)		2019 – 2020
	<i>Andreas Bartenschlager</i> (Bachelor's)		2019
	<i>Apostolos Zormpas</i> (PhD)		2018 – 2022
	<i>Bernat Ferrer</i> (Master's)		2018 – 2019
	<i>Sen Tian</i> (Master's)		2018 – 2019
	<i>Pablo Navarro</i> (Bachelor's)		2018
	• Co-supervision of students:		
	<i>Riccardo Franceschi</i> (PhD)		2019 – 2023
	<i>Giovanni Rosotti</i> (PhD 05/2015)		2011 – 2014
	<i>Fredrik Windmark</i> (PhD 11/2013)		2010 – 2013
	<i>Paola Pinilla</i> (PhD 07/2013)		2010 – 2013
	<i>Christian Lenz</i> (Masters)		2015 – 2016
	<i>Christian Lenz</i> (PhD)		2016 – 2020
	• Teaching of Masters and Bachelors courses at LMU Munich 2012, 2017 - now		
<i>Formation & Evolution of Planets in Protoplanetary Discs</i> (Master's)			
<i>Introduction to Radiative Transfer in Astrophysics</i> (Master's)			
<i>Essentials of Modern Astrophysics</i> (Master's)			
<i>Astrophysik I</i> (Bachelor's)			
• 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 *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 StG, ERC AdG, ANR, ALMA
- 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

126. **Birnstiel**: *Dust growth and evolution in protoplanetary disks*, Annual Reviews in Astronomy & Astrophysics, in press
125. Valegård, 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.
124. 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.
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. Miotello, Kamp, **Birnstiel**, Cleaves, and Kataoka: *Setting the Stage for Planet Formation: Measurements and Implications of the Fundamental Disk Properties*, Protostars and Planets VII (2023), vol. 534, 501.

118. Binkert, Szulágyi, and **Birnstiel**: *Three-dimensional dust stirring by a giant planet embedded in a protoplanetary disc*, MNRAS (2023), vol. 523, 55.
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. Stammer, Lichtenberg, Drażkowska, and **Birnstiel**: *Leaky dust traps: How fragmentation impacts dust filtering by planets*, A&A (2023), vol. 670, L5.
112. 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.
111. 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.
110. Vægård, 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.
109. Lau, Drażkowska, Stammer, **Birnstiel**, and Dullemond: *Rapid formation of massive planetary cores in a pressure bump*, A&A (2022), vol. 668, A170.
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. 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.
104. 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.
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. Franz, Ercolano, Casassus, Picogna, **Birnstiel**, Pérez, Rab, and Sharma: *Dust entrainment in photoevaporative winds: Densities and imaging*, A&A (2022), vol. 657, A69.
101. Franceschi, **Birnstiel**, Henning, Pinilla, Semenov, and Zormpas: *Mass determination of protoplanetary disks from dust evolution*, A&A (2022), vol. 657, A74.
100. Stammler and **Birnstiel**: *Simframe: A Python Framework for Scientific Simulations*, The Journal of Open Source Software (2022), vol. 7, 3882.
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. 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.
94. Drażkowska, Stammler, and **Birnstiel**: *How dust fragmentation may be beneficial to planetary growth by pebble accretion*, A&A (2021), vol. 647, A15.
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. Huang, Andrews, Dullemond, Öberg, Qi, Zhu, **Birnstiel**, Carpenter, Isella, Macías, McClure, Pérez, Teague, Wilner, and Zhang: *A Multifrequency ALMA Characterization of Substructures in the GM Aur Protoplanetary Disk*, ApJ (2020), vol. 891, 48.
87. Gárate, **Birnstiel**, Drażkowska, and Stammler: *Gas accretion damped by dust back-reaction at the snow line*, A&A (2020), vol. 635, A149.
86. Franz, Picogna, Ercolano, and **Birnstiel**: *Dust entrainment in photoevaporative winds: The impact of X-rays*, A&A (2020), vol. 635, A53.

85. Laune, Li, Li, Li, Walls, **Birnstiel**, Drażkowska, and Stammler: *Ring Morphology with Dust Coagulation in Protoplanetary Disks*, ApJ (2020), vol. 889, L8.
84. Drażkowska, Li, **Birnstiel**, Stammler, and Li: *Including Dust Coagulation in Hydrodynamic Models of Protoplanetary Disks: Dust Evolution in the Vicinity of a Jupiter-mass Planet*, ApJ (2019), vol. 885, 91.
83. Stammler, Drażkowska, **Birnstiel**, Klahr, Dullemond, and Andrews: *The DSHARP Rings: Evidence of Ongoing Planetesimal Formation?*, ApJ (2019), vol. 884, L5.
82. Li, Li, Ricci, Li, **Birnstiel**, Isella, Ansdell, Yuan, Drażkowska, and Stammler: *Effects of Ringed Structures and Dust Size Growth on Millimeter Observations of Protoplanetary Disks*, ApJ (2019), vol. 878, 39.
81. Zhu, Zhang, Jiang, Kataoka, **Birnstiel**, Dullemond, Andrews, Huang, Pérez, Carpenter, Bai, Wilner, and Ricci: *One Solution to the Mass Budget Problem for Planet Formation: Optically Thick Disks with Dust Scattering*, ApJ (2019), vol. 877, L18.
80. Lenz, Klahr, and **Birnstiel**: *Planetesimal Population Synthesis: Pebble Flux-regulated Planetesimal Formation*, ApJ (2019), vol. 874, 36.
79. Gárate, **Birnstiel**, Stammler, and Günther: *The Dimming of RW Auriga: Is Dust Accretion Preceding an Outburst?*, ApJ (2019), vol. 871, 53.
78. van der Marel, Matthews, Dong, **Birnstiel**, and Isella: *Dust Growth and Dust Trapping in Protoplanetary Disks*, Science with a Next Generation Very Large Array (2018), vol. 517, 199.
77. Teague, Bae, **Birnstiel**, and Bergin: *Evidence for a Vertical Dependence on the Pressure Structure in AS 209*, ApJ (2018), vol. 868, 113.
76. Guzmán, Huang, Andrews, Isella, Pérez, Carpenter, Dullemond, Ricci, **Birnstiel**, Zhang, Zhu, Bai, Benisty, Öberg, and Wilner: *The Disk Substructures at High Angular Resolution Program (DSHARP). VIII. The Rich Ringed Substructures in the AS 209 Disk*, ApJ (2018), vol. 869, L48.
75. Pérez, Benisty, Andrews, Isella, Dullemond, Huang, Kurtovic, Guzmán, Zhu, **Birnstiel**, Zhang, Carpenter, Wilner, Ricci, Bai, Weaver, and Öberg: *The Disk Substructures at High Angular Resolution Project (DSHARP). X. Multiple Rings, a Misaligned Inner Disk, and a Bright Arc in the Disk around the T Tauri star HD 143006*, ApJ (2018), vol. 869, L50.
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