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POSITIONS	<p><b>Professor for Theoretical Astrophysics</b> 02/2017 – now at the Ludwig-Maximilians-Universität München, Germany</p> <p><b>Postdoctoral Researcher</b> 09/2015 – 01/2017 at the Max-Planck-Institute for Astronomy, Heidelberg, Germany Advisor: <i>PD Dr. Hubert Klahr</i></p> <p><b>Research Associate</b> 09/2015 – now at the Harvard-Smithsonian Center for Astrophysics Cambridge, MA, USA</p> <p><b>Postdoctoral Fellow</b> 01/2013 – 08/2015 at the Harvard-Smithsonian Center for Astrophysics Cambridge, MA, USA Advisor: <i>Dr. Sean M. Andrews</i></p> <p><b>Postdoctoral Researcher</b> 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><b>Postdoctoral Researcher</b> 10/2010 – 06/2011 at the Max-Planck-Institute for Astronomy, Heidelberg, Germany Advisor: <i>Prof. Dr. Cornelis P. Dullemond</i></p>
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STUDIES	<p><b>Ph.D. Astronomy</b> 09/2007–10/2010 University of Heidelberg &amp; 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><b>M.S. Physics</b> 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><b>Graduate studies in physics</b> 10/2005 – 07/2006 Julius-Maximilians-Universität, Würzburg, Germany</p>
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	<b>Vordiplom in physics</b>	08/2005
	Julius-Maximilians-Universität, Würzburg, Germany	
	Major: <i>physics</i>	
	Minor: <i>mathematics &amp; chemistry</i>	
	<b>Undergraduate studies</b>	10/2003 – 09/2005
	Julius-Maximilians-Universität, Würzburg, Germany	
COMMUNITY SERVICE	<b>Civilian Service</b>	09/2002 – 09/2003
	Roland Eller environmental center, Hobbach, Germany	
	<i>conducted volunteering work via a “Freiwilliges Ökologisches Jahr”</i>	
SCHOOLING	<b>High School / Abitur</b>	09/1993 – 08/2002
	general qualification for university entrance	
	Hermann-Staudinger-Gymnasium	
	Erlenbach am Main, Germany	
	<b>Elementary School</b>	09/1989 – 08/1993
	Johannes Obernburger Grundschule	
	Obernburg am Main, Germany	
RESEARCH INTERESTS	growth and transport of solids in protoplanetary disks; laboratory studies related to planet formation; meteoritics; structure and evolution of protoplanetary disks; astrophysics and astrochemistry of planet formation; connection to ALMA and SMA observations; Bayesian data analysis and MCMC methods; high performance computing;	
REFEREED PUBLICATIONS	<p>78. Gárate, <b>Birnstiel</b>, Stammler, and Günther: <i>The Dimming of RW Auriga: Is Dust Accretion Preceding an Outburst?</i>, ApJ (2019), vol. 871, 53.</p> <p>77. Isella, Huang, Andrews, Dullemond, <b>Birnstiel</b>, Zhang, Zhu, Guzmán, Pérez, Bai, Benisty, Carpenter, Ricci, and Wilner: <i>The Disk Substructures at High Angular Resolution Project (DSHARP). IX. A High-definition Study of the HD 163296 Planet-forming Disk</i>, ApJ (2018), vol. 869, L49.</p> <p>76. Huang, Andrews, Pérez, Zhu, Dullemond, Isella, Benisty, Bai, <b>Birnstiel</b>, Carpenter, Guzmán, Hughes, Öberg, Ricci, Wilner, and Zhang: <i>The Disk Substructures at High Angular Resolution Project (DSHARP). III. Spiral Structures in the Millimeter Continuum of the Elias 27, IM Lup, and WaOph 6 Disks</i>, ApJ (2018), vol. 869, L43.</p> <p>75. Teague, Bae, <b>Birnstiel</b>, and Bergin: <i>Evidence for a Vertical Dependence on the Pressure Structure in AS 209</i>, ApJ (2018), vol. 868, 113.</p> <p>74. Pérez, Benisty, Andrews, Isella, Dullemond, Huang, Kurtovic, Guzmán, Zhu, <b>Birnstiel</b>, Zhang, Carpenter, Wilner, Ricci, Bai, Weaver, and Öberg: <i>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</i>, ApJ (2018), vol. 869, L50.</p> <p>73. Dullemond, <b>Birnstiel</b>, Huang, Kurtovic, Andrews, Guzmán, Pérez, Isella, Zhu, Benisty, Wilner, Bai, Carpenter, Zhang, and Ricci: <i>The Disk Substructures at High Angular Resolution Project (DSHARP). VI. Dust Trapping in Thin-ringed Protoplanetary Disks</i>, ApJ (2018), vol. 869, L46.</p>	

72. Zhang, Zhu, Huang, Guzmán, Andrews, **Birnstiel**, Dullemond, Carpenter, Isella, Pérez, Benisty, Wilner, Baruteau, Bai, and Ricci: *The Disk Substructures at High Angular Resolution Project (DSHARP). VII. The Planet–Disk Interactions Interpretation*, ApJ (2018), vol. 869, L47.
71. **Birnstiel**, Dullemond, Zhu, Andrews, Bai, Wilner, Carpenter, Huang, Isella, Benisty, Pérez, and Zhang: *The Disk Substructures at High Angular Resolution Project (DSHARP). V. Interpreting ALMA Maps of Protoplanetary Disks in Terms of a Dust Model*, ApJ (2018), vol. 869, L45.
70. Huang, Andrews, Dullemond, Isella, Pérez, Guzmán, Öberg, Zhu, Zhang, Bai, Benisty, **Birnstiel**, Carpenter, Hughes, Ricci, Weaver, and Wilner: *The Disk Substructures at High Angular Resolution Project (DSHARP). II. Characteristics of Annular Substructures*, ApJ (2018), vol. 869, L42.
69. 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.
68. Andrews, Huang, Pérez, Isella, Dullemond, Kurtovic, Guzmán, Carpenter, Wilner, Zhang, Zhu, **Birnstiel**, Bai, Benisty, Hughes, Öberg, and Ricci: *The Disk Substructures at High Angular Resolution Project (DSHARP). I. Motivation, Sample, Calibration, and Overview*, ApJ (2018), vol. 869, L41.
67. Bae, Pinilla, and **Birnstiel**: *Diverse Protoplanetary Disk Morphology Produced by a Jupiter-mass Planet*, ApJ (2018), vol. 864, L26.
66. Teague, Henning, Guilloteau, Bergin, Semenov, Dutrey, Flock, Gorti, and **Birnstiel**: *Temperature, Mass, and Turbulence: A Spatially Resolved Multiband Non-LTE Analysis of CS in TW Hya*, ApJ (2018), vol. 864, 133.
65. Keppler, Benisty, Müller, Henning, van Boekel, Cantalloube, Ginski, van Holstein, Maire, Pohl, Samland, Avenhaus, Baudino, Boccaletti, de Boer, Bonnefoy, Chauvin, Desidera, Langlois, Lazzoni, Marleau, Mordasini, Pawellek, Stolker, Vigan, Zurlo, **Birnstiel**, Brandner, Feldt, Flock, Girard, Gratton, Hagelberg, Isella, Janson, Juhász, Kemmer, Kral, Lagrange, Launhardt, Matter, Ménard, Milli, Mollière, Olofsson, Pérez, Pinilla, Pinte, Quanz, Schmidt, Udry, Wahhaj, Williams, Buenzli, Cudel, Dominik, Galicher, Kasper, Lannier, Mesa, Mouillet, Peretti, Perrot, Salter, Sissa, Wildi, Abe, Antichi, Augereau, Baruffolo, Baudoz, Bazzon, Beuzit, Blanchard, Brems, Buey, De Caprio, Carillet, Carle, Cascone, Cheetham, Claudi, Costille, Delboulbé, Dohlen, Fantinel, Feautrier, Fusco, Giro, Gluck, Gry, Hubin, Hugot, Jaquet, Le Mignant, Llored, Madec, Magnard, Martinez, Maurel, Meyer, Möller-Nilsson, Moulin, Mugnier, Origné, Pavlov, Perret, Petit, Pragt, Puget, Rabou, Ramos, Rigal, Rochat, Roelfsema, Rousset, Roux, Salasnich, Sauvage, Sevin, Soenke, Stadler, Suarez, Turatto, and Weber: *Discovery of a planetary-mass companion within the gap of the transition disk around PDS 70*, A&A (2018), vol. 617, A44.
64. Günther, **Birnstiel**, Huenemoerder, Principe, Schneider, Wolk, Dubois, Logie, Rau, and Vanaverbeke: *Optical Dimming of RW Aur Associated with an Iron-rich Corona and Exceptionally High Absorbing Column Density*, AJ (2018), vol. 156, 56.
63. Ginski, Benisty, van Holstein, Juhász, Schmidt, Chauvin, de Boer, Wilby, Manara, Delorme, Ménard, Pinilla, **Birnstiel**, Flock, Keller, Kenworthy, Milli, Olofsson, Pérez, Snik, and Vogt: *First direct detection of a polarized companion outside a resolved circumbinary disk around CS Chamaeleonis*, A&A (2018), vol. 616, A79.
62. Tripathi, Andrews, **Birnstiel**, Chandler, Isella, Pérez, Harris, Ricci, Wilner, Carpenter, Calvet, Corder, Deller, Dullemond, Greaves, Henning, Kwon, Lazio, Linz, and

- Testi: *The Millimeter Continuum Size-Frequency Relationship in the UZ Tau E Disk*, ApJ (2018), vol. 861, 64.
61. Teague, Bae, Bergin, **Birnstiel**, and Foreman-Mackey: *A Kinematical Detection of Two Embedded Jupiter-mass Planets in HD 163296*, ApJ (2018), vol. 860, L12.
  60. Hu, Tan, Zhu, Chatterjee, **Birnstiel**, Youdin, and Mohanty: *Inside-out Planet Formation. IV. Pebble Evolution and Planet Formation Timescales*, ApJ (2018), vol. 857, 20.
  59. Huang, Andrews, Cleeves, Öberg, Wilner, Bai, **Birnstiel**, Carpenter, Hughes, Isella, Pérez, Ricci, and Zhu: *CO and Dust Properties in the TW Hya Disk from High-resolution ALMA Observations*, ApJ (2018), vol. 852, 122.
  58. Ercolano, Jennings, Rosotti, and **Birnstiel**: *X-ray photoevaporation's limited success in the formation of planetesimals by the streaming instability*, MNRAS (2017), vol. 472, 4117.
  57. Liu, Henning, Carrasco-González, Chandler, Linz, **Birnstiel**, van Boekel, Pérez, Flock, Testi, Rodríguez, and Galván-Madrid: *The properties of the inner disk around HL Tau: Multi-wavelength modeling of the dust emission*, A&A (2017), vol. 607, A74.
  56. Pohl, Benisty, Pinilla, Ginski, de Boer, Avenhaus, Henning, Zurlo, Boccaletti, Augereau, **Birnstiel**, Dominik, Facchini, Fedele, Janson, Keppler, Kral, Langlois, Ligi, Maire, Ménard, Meyer, Pinte, Quanz, Sauvage, Sezestre, Stolker, Szulágyi, van Boekel, van der Plas, Villenave, Baruffolo, Baudoz, Le Mignant, Maurel, Ramos, and Weber: *The Circumstellar Disk HD 169142: Gas, Dust, and Planets Acting in Concert?*, ApJ (2017), vol. 850, 52.
  55. Pinilla, Quiroga-Nuñez, Benisty, Natta, Ricci, Henning, van der Plas, **Birnstiel**, Testi, and Ward-Duong: *Millimeter Spectral Indices and Dust Trapping By Planets in Brown Dwarf Disks*, ApJ (2017), vol. 846, 70.
  54. Ricci, Rome, Pinilla, Facchini, **Birnstiel**, and Testi: *VLA Observations of the Disk around the Young Brown Dwarf 2MASS J044427+2512*, ApJ (2017), vol. 846, 19.
  53. Facchini, **Birnstiel**, Bruderer, and van Dishoeck: *Different dust and gas radial extents in protoplanetary disks: consistent models of grain growth and CO emission*, A&A (2017), vol. 605, A16.
  52. Cridland, Pudritz, **Birnstiel**, Cleeves, and Bergin: *Composition of early planetary atmospheres - II. Coupled Dust and chemical evolution in protoplanetary discs*, MNRAS (2017), vol. 469, 3910.
  51. Pinilla, Pohl, Stammler, and **Birnstiel**: *Dust Density Distribution and Imaging Analysis of Different Ice Lines in Protoplanetary Disks*, ApJ (2017), vol. 845, 68.
  50. Tripathi, Andrews, **Birnstiel**, and Wilner: *A millimeter Continuum Size-Luminosity Relationship for Protoplanetary Disks*, ApJ (2017), vol. 845, 44.
  49. Pinilla, Pérez, Andrews, van der Marel, van Dishoeck, Ataiee, Benisty, **Birnstiel**, Juhász, Natta, Ricci, and Testi: *A Multi-wavelength Analysis of Dust and Gas in the SR 24S Transition Disk*, ApJ (2017), vol. 839, 99.
  48. Stammler, **Birnstiel**, Panić, Dullemond, and Dominik: *Redistribution of CO at the location of the CO ice line in evolving gas and dust disks*, A&A (2017), vol. 600, A140.
  47. Cazzoletti, Ricci, **Birnstiel**, and Lodato: *Testing dust trapping in the circumbinary disk around GG Tauri A*, A&A (2017), vol. 599, A102.
  46. Cridland, Pudritz, and **Birnstiel**: *Radial drift of dust in protoplanetary discs: the evolution of ice lines and dead zones*, MNRAS (2017), vol. 465, 3865.

45. Teague, Semenov, Gorti, Guilloteau, Henning, **Birnstiel**, Dutrey, van Boekel, and Chapillon: *A Surface Density Perturbation in the TW Hydrae Disk at 95 au Traced by Molecular Emission*, ApJ (2017), vol. 835, 228.
44. **Birnstiel**, Fang, and Johansen: *Dust Evolution and the Formation of Planetesimals*, Space Sci. Rev. (2016), vol. 205, 41.
43. Pinilla, Flock, Ovelar, and **Birnstiel**: *Can dead zones create structures like a transition disk?*, A&A (2016), vol. 596, A81.
42. Pohl, Kataoka, Pinilla, Dullemond, Henning, and **Birnstiel**: *Investigating dust trapping in transition disks with millimeter-wave polarization*, A&A (2016), vol. 593, A12.
41. Teague, Guilloteau, Semenov, Henning, Dutrey, Piétu, **Birnstiel**, Chapillon, Hollenbach, and Gorti: *Measuring turbulence in TW Hydrae with ALMA: methods and limitations*, A&A (2016), vol. 592, A49.
40. de Juan Ovelar, Pinilla, Min, Dominik, and **Birnstiel**: *Constraining turbulence mixing strength in transitional discs with planets using SPHERE and ALMA*, MNRAS (2016), vol. 459, L85.
39. Andrews, Wilner, Zhu, **Birnstiel**, Carpenter, Pérez, Bai, Öberg, Hughes, Isella, and Ricci: *Ringed Substructure and a Gap at 1 au in the Nearest Protoplanetary Disk*, ApJ (2016), vol. 820, L40.
38. Carrasco-González, Henning, Chandler, Linz, Pérez, Rodríguez, Galván-Madrid, Anglada, **Birnstiel**, van Boekel, Flock, Klahr, Macias, Menten, Osorio, Testi, Torrelles, and Zhu: *The VLA View of the HL Tau Disk: Disk Mass, Grain Evolution, and Early Planet Formation*, ApJ (2016), vol. 821, L16.
37. Guilloteau, Piétu, Chapillon, Di Folco, Dutrey, Henning, Semenov, **Birnstiel**, and Grosso: *The shadow of the Flying Saucer: A very low temperature for large dust grains*, A&A (2016), vol. 586, L1.
36. Pinilla, Klarmann, **Birnstiel**, Benisty, Dominik, and Dullemond: *A tunnel and a traffic jam: How transition disks maintain a detectable warm dust component despite the presence of a large planet-carved gap*, A&A (2016), vol. 585, A35.
35. Piso, Öberg, **Birnstiel**, and Murray-Clay: *C/O and Snowline Locations in Protoplanetary Disks: The Effect of Radial Drift and Viscous Gas Accretion*, ApJ (2015), vol. 815, 109.
34. Pinilla, van der Marel, Pérez, van Dishoeck, Andrews, **Birnstiel**, Herczeg, Pontoppidan, and van Kempen: *Testing particle trapping in transition disks with ALMA*, A&A (2015), vol. 584, A16.
33. Pinilla, de Boer, Benisty, Juhász, de Juan Ovelar, Dominik, Avenhaus, **Birnstiel**, Girard, Huelamo, Isella, and Milli: *Variability and dust filtration in the transition disk J160421.7-213028 observed in optical scattered light*, A&A (2015), vol. 584, L4.
32. Banzatti, Pinilla, Ricci, Pontoppidan, **Birnstiel**, and Ciesla: *Direct Imaging of the Water Snow Line at the Time of Planet Formation using Two ALMA Continuum Bands*, ApJ (2015), vol. 815, L15.
31. **Birnstiel**, Andrews, Pinilla, and Kama: *Dust Evolution Can Produce Scattered Light Gaps in Protoplanetary Disks*, ApJ (2015), vol. 813, L14.
30. van der Marel, Pinilla, Tobin, van Kempen, Andrews, Ricci, and **Birnstiel**: *A Concentration of Centimeter-sized Grains in the Ophiuchus IRS 48 Dust Trap*, ApJ (2015), vol. 810, L7.

29. Pinilla, **Birnstiel**, and Walsh: *Sequential planet formation in the HD 100546 protoplanetary disk?*, A&A (2015), vol. 580, A105.
28. Benisty, Juhász, Boccaletti, Avenhaus, Milli, Thalmann, Dominik, Pinilla, Buenzli, Pohl, Beuzit, **Birnstiel**, de Boer, Bonnefoy, Chauvin, Christiaens, Garufi, Grady, Henning, Huelamo, Isella, Langlois, Ménard, Mouillet, Olofsson, Pantin, Pinte, and Pueyo: *Asymmetric features in the protoplanetary disk MWC 758*, A&A (2015), vol. 578, L6.
27. Sicilia-Aguilar, Roccatagliata, Getman, Rivière-Marichalar, **Birnstiel**, Merín, Fang, Henning, Eiroa, and Currie: *The Herschel/PACS view of the Cep OB2 region: Global protoplanetary disk evolution and clumpy star formation*, A&A (2015), vol. 573, A19.
26. Pinilla, de Juan Ovelar, Ataiee, Benisty, **Birnstiel**, van Dishoeck, and Min: *Gas and dust structures in protoplanetary disks hosting multiple planets*, A&A (2015), vol. 573, A9.
25. Walsh, Juhász, Pinilla, Harsono, Mathews, Dent, Hogerheijde, **Birnstiel**, Meeus, Nomura, Aikawa, Millar, and Sandell: *ALMA Hints at the Presence of two Companions in the Disk around HD 100546*, ApJ (2014), vol. 791, L6.
24. Andrews, Chandler, Isella, **Birnstiel**, Rosenfeld, Wilner, Pérez, Ricci, Carpenter, Calvet, Corder, Deller, Dullemond, Greaves, Harris, Henning, Kwon, Lazio, Linz, Mundy, Sargent, Storm, and Testi: *Resolved Multifrequency Radio Observations of GG Tau*, ApJ (2014), vol. 787, 148.
23. Pinilla, Benisty, **Birnstiel**, Ricci, Isella, Natta, Dullemond, Quiroga-Nuñez, Henning, and Testi: *Millimetre spectral indices of transition disks and their relation to the cavity radius*, A&A (2014), vol. 564, A51.
22. Testi, **Birnstiel**, Ricci, Andrews, Blum, Carpenter, Dominik, Isella, Natta, Williams, and Wilner: *Dust Evolution in Protoplanetary Disks*, PPVI (2014).
21. **Birnstiel** and Andrews: *On the Outer Edges of Protoplanetary Dust Disks*, ApJ (2014), vol. 780, 153.
20. de Juan Ovelar, Min, Dominik, Thalmann, Pinilla, Benisty, and **Birnstiel**: *Imaging diagnostics for transitional discs*, A&A (2013), vol. 560, A111.
19. Pinilla, **Birnstiel**, Benisty, Ricci, Natta, Dullemond, Dominik, and Testi: *Explaining millimeter-sized particles in brown dwarf disks*, A&A (2013), vol. 554, A95.
18. van der Marel, van Dishoeck, Bruderer, **Birnstiel**, Pinilla, Dullemond, van Kempen, Schmalzl, Brown, Herczeg, Mathews, and Geers: *A Major Asymmetric Dust Trap in a Transition Disk*, Science (2013), vol. 340, 1199.
17. Akimkin, Zhukovska, Wiebe, Semenov, Pavlyuchenkov, Vasyunin, **Birnstiel**, and Henning: *Protoplanetary Disk Structure with Grain Evolution: The ANDES Model*, ApJ (2013), vol. 766, 8.
16. **Birnstiel**, Dullemond, and Pinilla: *Lopsided dust rings in transition disks*, A&A (2013), vol. 550, L8.
15. Windmark, **Birnstiel**, Ormel, and Dullemond: *Breaking through: the effects of a velocity distribution on barriers to dust growth (Corrigendum)*, A&A (2012), vol. 548, C1.
14. Pinilla, Benisty, and **Birnstiel**: *Ring shaped dust accumulation in transition disks*, A&A (2012), vol. 545, A81.
13. **Birnstiel**, Andrews, and Ercolano: *Can grain growth explain transition disks?*, A&A (2012), vol. 544, A79.

12. Windmark, **Birnstiel**, Ormel, and Dullemond: *Breaking through: The effects of a velocity distribution on barriers to dust growth*, A&A (2012), vol. 544, L16.
11. Windmark, **Birnstiel**, Güttler, Blum, Dullemond, and Henning: *Planetesimal formation by sweep-up: how the bouncing barrier can be beneficial to growth*, A&A (2012), vol. 540, A73.
10. **Birnstiel**, Klahr, and Ercolano: *A simple model for the evolution of the dust population in protoplanetary disks*, A&A (2012), vol. 539, A148.
9. Pinilla, **Birnstiel**, Ricci, Dullemond, Uribe, Testi, and Natta: *Trapping dust particles in the outer regions of protoplanetary disks*, A&A (2012), vol. 538, A114.
8. Andrews, Wilner, Hughes, Qi, Rosenfeld, Öberg, **Birnstiel**, Espaillat, Cieza, Williams, Lin, and Ho: *The TW Hya Disk at 870  $\mu\text{m}$ : Comparison of CO and Dust Radial Structures*, ApJ (2012), vol. 744, 162.
7. Ricci, Testi, Williams, Mann, and **Birnstiel**: *The mm-colors of a Young Binary Disk System in the Orion Nebula Cluster*, ApJ (2011), vol. 739, L8.
6. **Birnstiel**: *The Evolution of Gas and Dust in Protoplanetary Accretion Disks*, PhD Thesis (2011).
5. Vasyunin, Wiebe, **Birnstiel**, Zhukovska, Henning, and Dullemond: *Impact of Grain Evolution on the Chemical Structure of Protoplanetary Disks*, ApJ (2011), vol. 727, 76.
4. **Birnstiel**, Ormel, and Dullemond: *Dust size distributions in coagulation/fragmentation equilibrium: numerical solutions and analytical fits*, A&A (2011), vol. 525, A11.
3. **Birnstiel**, Ricci, Trotta, Dullemond, Natta, Testi, Dominik, Henning, Ormel, and Zsom: *Testing the theory of grain growth and fragmentation by millimeter observations of protoplanetary disks*, A&A (2010), vol. 516, L14.
2. **Birnstiel**, Dullemond, and Brauer: *Gas- and dust evolution in protoplanetary disks*, A&A (2010), vol. 513, A79.
1. **Birnstiel**, Dullemond, and Brauer: *Dust retention in protoplanetary disks*, A&A (2009), vol. 503, L5.

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TALKS

Inv. talk: EWASS - PPDs: the birth places of planets	Lyon, FRA	06/2018
Inv. talk: Challenges in planet formation	Falton Institute, NYC, USA	05/2018
Inv. talk: IAUS 350 - Laboratory Astrophysics	U. of Cambridge, UK	04/2018
Inv. colloquium	U. of St. Andrews	04/2018
Inv. talk: Planet-Forming Disks	Villa Vigoni, ITA	03/2018
Inv. talk: Water during planet formation and evolution	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

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POSTER  
CONTRIBUTIONS



224th Meeting of the AAS	Boston, USA	07/2014
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

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TEACHING

- Co-supervision of students:
  - Giovanni Rosotti* (PhD 05/2015) 2011 – 2014
  - Fredrik Windmark* (PhD 11/2013) 2010 – 2013
  - Paola Pinilla* (PhD 07/2013) 2010 – 2013
  - Christian Lenz* (MS 2015) 2015 – 2016
  - Christian Lenz* (PhD) 2016 – present
- Supervision of students:
  - Matías Gárate* (PhD) 2017 – present
  - Apostolos Zormpas* (PhD) 2018 – present
  - Bernat Ferrer* (Master) 2018 – present
  - Sen Tian* (Master) 2018 – present
  - Pablo Navarro* (Bachelor) 2018
- Teaching of Masters and Bachelors courses at LMU Munich 2017 - now
- Master level lecture series 2012, 2017 - now  
Ludwig-Maximilians Universität Munich, Germany  
Topic: *Formation & Evolution of Planets in Protoplanetary Discs*
- Master level lecture series 2018  
Ludwig-Maximilians Universität Munich, Germany  
Topic: *Introduction to Radiative Transfer in Astrophysics*
- Lectures for Teacher Seminars, Deutsches Museum 2019
- Lectures for "Probstudium Physik" 2017, 2018
- 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

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OTHER  
ACTIVITIES  
& ACHIEVEMENTS

- Successful ERC Starting Grant Proposal 2016 (~ 1.4 Million €)
- A-rated ERC Starting Grant Proposal 2014
- Co-author of Chapter in "Protostars & Planets VI", Arizona University Press
- Co-organizer of the Munich Physics Colloquium Series (2016-present)
- Referee for A&A, MNRAS, ApJ, Icarus, ERC StG, ERC ADG, ANR
- Organizer of Aspen Center of Physics Workshop *Unveiling the Physics of Protoplanet Formation: Connecting Theory to Observations* (Aspen, 2018)

- SOC member of international conference *Take a closer look - The innermost region of protoplanetary disks* (Garching 2018)
- SOC member of international conference *Missing links from disks to planets* (Budapest 2016)
- SOC member & LOC chair of international conference *Planet Formation and Evolution 2012* (~200 participants)
- 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)
- Webmaster of the MPIA Planet and Star Formation department (2008-2011)
- Organizer and co-organizer of several public outreach talks, guided tours, open house activities, Kaffee & Kosmos, ...
- Author of popular science articles in “Sterne und Weltraum” (german popular science magazine)