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Not so smooth after all: resolving dust and gas structures in protoplanetary disks

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Bibliography

- Alcalá, J. M., A. Natta, C. F. Manara, et al. 2014. *Astronomy and Astrophysics* 561, A2, A2.
- Alcalá, J. M., C. F. Manara, A. Natta, et al. 2017. *Astronomy and Astrophysics* 600, A20, A20.
- Alibert, Y., C. Mordasini, and W. Benz. 2011. *Astronomy and Astrophysics* 526, A63, A63.
- ALMA Partnership, C. L. Brogan, L. M. Pérez, et al. 2015. *Astrophysical Journal, Letters to the Editor* 808.1, L3, p. L3.
- Andre, P., D. Ward-Thompson, and M. Barsony. 1993. *Astrophysical Journal* 406, pp. 122–141.
- Andrews, S. M. and J. P. Williams. 2007. *Astrophysical Journal* 671, pp. 1800–1812.
- Andrews, S. M., C. J. Chandler, A. Isella, et al. 2014. *Astrophysical Journal* 787, 148, p. 148.
- Andrews, S. M., J. Huang, L. M. Pérez, et al. 2018. *Astrophysical Journal, Letters to the Editor* 869, L41, p. L41.
- Andrews, S. M. 2015. *Publications of the Astronomical Society of the Pacific* 127.956, p. 961.
- Andrews, S. M. and J. P. Williams. 2005. *Astrophysical Journal* 631.2, pp. 1134–1160.
- Andrews, S. M., D. J. Wilner, A. M. Hughes, et al. 2009. *Astrophysical Journal* 700.2, pp. 1502–1523.
- Andrews, S. M., D. J. Wilner, C. Espaillat, et al. 2011. *Astrophysical Journal* 732.1, 42, p. 42.

- Andrews, S. M., K. A. Rosenfeld, A. L. Kraus, et al. 2013. *Astrophysical Journal* 771.2, 129, p. 129.
- Andrews, S. M., D. J. Wilner, Z. Zhu, et al. 2016. *Astrophysical Journal, Letters to the Editor* 820.2, L40, p. L40.
- Ansdell, M., J. P. Williams, N. van der Marel, et al. 2016. *Astrophysical Journal* 828.1, 46, p. 46.
- Ansdell, M., J. P. Williams, C. F. Manara, et al. 2017. *Astronomical Journal* 153.5, 240, p. 240.
- Ansdell, M., J. P. Williams, L. Trapman, et al. 2018. *Astrophysical Journal* 859.1, 21, p. 21.
- Antonellini, S., I. Kamp, P. Riviere-Marichalar, et al. 2015. *Astronomy and Astrophysics* 582, A105, A105.
- Armitage, P. J. 2011. *Annual Review of Astronomy and Astrophysics* 49.1, pp. 195–236.
- Artymowicz, P. and S. H. Lubow. 1994. *Astrophysical Journal* 421, pp. 651–667.
- Ataiee, S., P. Pinilla, A. Zsom, et al. 2013. *Astronomy and Astrophysics* 553, L3, p. L3.
- Avenhaus, H., S. P. Quanz, M. R. Meyer, et al. 2014. *Astrophysical Journal* 790.1, 56, p. 56.
- Bae, J., Z. Zhu, and L. Hartmann. 2016. *Astrophysical Journal* 819.2, 134, p. 134.
- Baraffe, I., D. Homeier, F. Allard, et al. 2015. *Astronomy and Astrophysics* 577, A42, A42.
- Barenfeld, S. A., J. M. Carpenter, L. Ricci, et al. 2016. *Astrophysical Journal* 827.2, 142, p. 142.
- Baruteau, C., A. Crida, S. J. Paardekooper, et al. 2014. *Protostars and Planets VI*. Ed. by H. Beuther, R. S. Klessen, C. P. Dullemond, et al., p. 667.
- Baruteau, C. and Z. Zhu. 2016. *Monthly Notices of the RAS* 458.4, pp. 3927–3941.
- Bate, M. R., I. A. Bonnell, and N. M. Price. 1995. *Monthly Notices of the RAS* 277, pp. 362–376.

- Bate, M. R., G. Lodato, and J. E. Pringle. 2010. *Monthly Notices of the RAS* 401, pp. 1505–1513.
- Baulch, D. L., C. T. Bowman, C. J. Cobos, et al. 2005. *Journal of Physical and Chemical Reference Data* 34.3, pp. 757–1397.
- Beckwith, S. V. W. and A. I. Sargent. 1996. *Nature* 383.6596, pp. 139–144.
- Beckwith, S. V. W., A. I. Sargent, R. S. Chini, et al. 1990. *Astronomical Journal* 99, p. 924.
- Bell, C. P. M., T. Naylor, N. J. Mayne, et al. 2013. *Monthly Notices of the RAS* 434.1, pp. 806–831.
- Benisty, M., A. Juhasz, A. Boccaletti, et al. 2015. *Astronomy and Astrophysics* 578, L6, p. L6.
- Benisty, M., T. Stolker, A. Pohl, et al. 2017. *Astronomy and Astrophysics* 597, A42, A42.
- Benz, W., S. Ida, Y. Alibert, et al. 2014. *Protostars and Planets VI*. Ed. by H. Beuther, R. S. Klessen, C. P. Dullemond, et al., p. 691.
- Bergin, E. A., L. I. Cleeves, U. Gorti, et al. 2013. *Nature* 493.7434, pp. 644–646.
- Bergin, E. A., F. Du, L. I. Cleeves, et al. 2016. *Astrophysical Journal* 831.1, 101, p. 101.
- Beuzit, J.-L., M. Feldt, K. Dohlen, et al. 2008. *SPIE Proceedings*. Vol. 7014. Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, p. 701418.
- Birnstiel, T., C. P. Dullemond, and F. Brauer. 2010. *Astronomy and Astrophysics* 513, A79, A79.
- Birnstiel, T., H. Klahr, and B. Ercolano. 2012. *Astronomy and Astrophysics* 539, A148, A148.
- Birnstiel, T., C. P. Dullemond, and P. Pinilla. 2013a. *Astronomy and Astrophysics* 550, L8, p. L8.
- 2013b. *Astronomy and Astrophysics* 550, L8, p. L8.
- Blum, J. and G. Wurm. 2008. *Annual Review of Astronomy and Astrophysics* 46, pp. 21–56.
- Blum, J. 2018. *Space Science Review* 214.2, 52, p. 52.

- Boehler, Y., E. Weaver, A. Isella, et al. 2017. *Astrophysical Journal* 840.1, 60, p. 60.
- Bonfils, X., X. Delfosse, S. Udry, et al. 2013. *Astronomy and Astrophysics* 549, A109, A109.
- Bonnell, I., J.-P. Arcoragi, H. Martel, et al. 1992. *Astrophysical Journal* 400, pp. 579–594.
- Borucki, W. J., D. G. Koch, G. Basri, et al. 2011a. *Astrophysical Journal* 728.2, 117, p. 117.
- Borucki, W. J., D. G. Koch, G. Basri, et al. 2011b. *Astrophysical Journal* 736.1, 19, p. 19.
- Bouy, H., W. Brandner, E. L. Martín, et al. 2004. *Astronomy and Astrophysics* 424, pp. 213–226.
- Brauer, F., C. P. Dullemond, A. Johansen, et al. 2007. *Astronomy and Astrophysics* 469, pp. 1169–1182.
- Brauer, F., C. P. Dullemond, and T. Henning. 2008. *Astronomy and Astrophysics* 480, pp. 859–877.
- Brown, J. M., G. A. Blake, C. P. Dullemond, et al. 2007. *Astrophysical Journal, Letters to the Editor* 664.2, pp. L107–L110.
- Brown, J. M., G. A. Blake, C. Qi, et al. 2009. *Astrophysical Journal* 704.1, pp. 496–502.
- Bruderer, S., E. F. van Dishoeck, S. D. Doty, et al. 2012. *Astronomy and Astrophysics* 541, A91, A91.
- Bruderer, S. 2013. *Astronomy and Astrophysics* 559, A46, A46.
- Bruderer, S., N. van der Marel, E. F. van Dishoeck, et al. 2014. *Astronomy and Astrophysics* 562, A26, A26.
- Bruderer, S., D. Harsono, and E. F. van Dishoeck. 2015. *Astronomy and Astrophysics* 575, A94, A94.
- Cardelli, J. A., G. C. Clayton, and J. S. Mathis. 1989. *Astrophysical Journal* 345, p. 245.
- Carmona, A., C. Pinte, W. F. Thi, et al. 2014. *Astronomy and Astrophysics* 567, A51, A51.

- Carrasco-González, C., T. Henning, C. J. Chandler, et al. 2016. *Astrophysical Journal, Letters to the Editor* 821.1, L16, p. L16.
- Casassus, S., G. van der Plas, S. P. M, et al. 2013. *Nature* 493, pp. 191–194.
- Casassus, S., C. M. Wright, S. Marino, et al. 2015. *Astrophysical Journal* 812.2, 126, p. 126.
- Casassus, S., S. Marino, W. Lyra, et al. 2019. *Monthly Notices of the RAS* 483.3, pp. 3278–3287.
- Cassen, P. and A. Moosman. 1981. *Icarus* 48.3, pp. 353–376.
- Chapillon, E., S. Guilloteau, A. Dutrey, et al. 2012. *Astronomy and Astrophysics* 537, A60, A60.
- Chiang, E. I. and R. A. Murray-Clay. 2004. *Astrophysical Journal* 607, pp. 913–920.
- Christiaens, V., S. Casassus, S. Perez, et al. 2014. *Astrophysical Journal, Letters to the Editor* 785.1, L12, p. L12.
- Cieza, L. A., J. J. Swift, G. S. Mathews, et al. 2008. *Astrophysical Journal, Letters to the Editor* 686.2, p. L115.
- Cieza, L. A., D. Ruíz-Rodríguez, A. Hales, et al. 2019. *Monthly Notices of the RAS* 482.1, pp. 698–714.
- Clarke, C. J. and J. E. Pringle. 1993. *Monthly Notices of the RAS* 261.1, pp. 190–202.
- Cleeves, L. I., E. A. Bergin, C. Qi, et al. 2015. *Astrophysical Journal* 799.2, 204, p. 204.
- Comerón, F. 2008. *Handbook of Star Forming Regions, Volume II: The Southern Sky ASP Monograph Publications, Vol. 5. Edited by Bo Reipurth, p.295*. Ed. by B. Reipurth. Vol. 5, p. 295.
- Currie, T. and A. Sicilia-Aguilar. 2011. *Astrophysical Journal* 732.1, 24, p. 24.
- Cutri, R. M., M. F. Skrutskie, S. van Dyk, et al. 2003.
- D’Alessio, P., N. Calvet, L. Hartmann, et al. 2006. *Astrophysical Journal* 638.1, pp. 314–335.
- Davidson, D. F., D. C. Snell, and R. K. Hanson. 1990. *American Institute of Physics Conference Series*. Vol. 208, pp. 525–530.

- de Val-Borro, M., P. Artymowicz, G. D'Angelo, et al. 2007. *Astronomy and Astrophysics* 471.3, pp. 1043–1055.
- de Zeeuw, P. T., R. Hoogerwerf, J. H. J. de Bruijne, et al. 1999. *Astronomical Journal* 117.1, pp. 354–399.
- Debes, J. H., H. Jang-Condell, A. J. Weinberger, et al. 2013. *Astrophysical Journal* 771.1, 45, p. 45.
- Di Folco, E., A. Dutrey, J.-B. Le Bouquin, et al. 2014. *Astronomy and Astrophysics* 565, L2, p. L2.
- Dipierro, G., D. Price, G. Laibe, et al. 2015a. *Monthly Notices of the RAS* 453, pp. L73–L77.
- Dipierro, G., G. Laibe, D. J. Price, et al. 2016. *Monthly Notices of the RAS* 459, pp. L1–L5.
- Dipierro, G., P. Pinilla, G. Lodato, et al. 2015b. *Monthly Notices of the RAS* 451.1, pp. 974–986.
- Dominik, C. and A. G. G. M. Tielens. 1997. *Astrophysical Journal* 480.2, pp. 647–673.
- Dong, R. and J. Fung. 2017. *Astrophysical Journal* 835.1, 38, p. 38.
- Dong, R., Z. Zhu, R. R. Rafikov, et al. 2015a. *Astrophysical Journal, Letters to the Editor* 809.1, L5, p. L5.
- Dong, R., C. Hall, K. Rice, et al. 2015b. *Astrophysical Journal, Letters to the Editor* 812.2, L32, p. L32.
- Dong, R., S.-y. Liu, J. Eisner, et al. 2018. *Astrophysical Journal* 860.2, 124, p. 124.
- Doyle, L. R., J. A. Carter, D. C. Fabrycky, et al. 2011. *Science* 333, pp. 1602–.
- Draine, B. T. 2006. *Astrophysical Journal* 636, pp. 1114–1120.
- Duchêne, G., C. McCabe, A. M. Ghez, et al. 2004. *Astrophysical Journal* 606, pp. 969–982.
- Dullemond, C. P., A. Natta, and L. Testi. 2006. *Astrophysical Journal, Letters to the Editor* 645.1, pp. L69–L72.
- Dullemond, C. P., T. Birnstiel, J. Huang, et al. 2018. *Astrophysical Journal, Letters to the Editor* 869.2, L46, p. L46.

- Dunham, M. M., L. E. Allen, I. Evans Neal J., et al. 2015. *Astrophysical Journal, Supplement* 220.1, 11, p. 11.
- Duquennoy, A. and M. Mayor. 1991. *Astronomy and Astrophysics* 248, pp. 485–524.
- Dutrey, A., S. Guilloteau, and M. Simon. 1994. *Astronomy and Astrophysics* 286, pp. 149–159.
- Dutrey, A., S. Guilloteau, G. Duvert, et al. 1996. *Astronomy and Astrophysics* 309, pp. 493–504.
- Dutrey, A., S. Guilloteau, and M. Guelin. 1997. *Astronomy and Astrophysics* 317, pp. L55–L58.
- Dutrey, A., D. Semenov, E. Chapillon, et al. 2014. *Protostars and Planets VI*, pp. 317–338.
- Dzib, S. A., L. Loinard, G. N. Ortiz-León, et al. 2018. *Astrophysical Journal* 867.2, 151, p. 151.
- Eisner, J. A., R. L. Plambeck, J. M. Carpenter, et al. 2008. *Astrophysical Journal* 683.1, pp. 304–320.
- Eisner, J. A., H. G. Arce, N. P. Ballering, et al. 2018. *Astrophysical Journal* 860.1, 77, p. 77.
- Elias, J. H. 1978. *Astrophysical Journal* 224, pp. 857–872.
- Evans Neal J., I., M. M. Dunham, J. K. Jørgensen, et al. 2009. *Astrophysical Journal, Supplement* 181.2, pp. 321–350.
- Facchini, S., G. Lodato, and D. J. Price. 2013. *Monthly Notices of the RAS* 433, pp. 2142–2156.
- Facchini, S., L. Ricci, and G. Lodato. 2014. *Monthly Notices of the RAS* 442, pp. 3700–3710.
- Facchini, S., T. Birnstiel, S. Bruderer, et al. 2017. *Astronomy and Astrophysics* 605, A16, A16.
- Facchini, S., P. Pinilla, E. F. van Dishoeck, et al. 2018. *Astronomy and Astrophysics* 612, A104, A104.
- Facchini, S., C. J. Clarke, and T. G. Bisbas. 2016. *Monthly Notices of the RAS* 457.4, pp. 3593–3610.

- Favre, C., L. I. Cleeves, E. A. Bergin, et al. 2013. *Astrophysical Journal, Letters to the Editor* 776.2, L38, p. L38.
- Fedele, D., M. E. van den Ancker, T. Henning, et al. 2010. *Astronomy and Astrophysics* 510, A72, A72.
- Fedele, D., S. Bruderer, E. F. van Dishoeck, et al. 2013. *Astrophysical Journal, Letters to the Editor* 776.1, L3, p. L3.
- Fedele, D., M. Carney, M. R. Hogerheijde, et al. 2017. *Astronomy and Astrophysics* 600, A72, A72.
- Fedele, D., M. Tazzari, R. Booth, et al. 2018. *Astronomy and Astrophysics* 610, A24, A24.
- Fischer, D. A. and G. W. Marcy. 1992. *Astrophysical Journal* 396, pp. 178–194.
- Flebbe, O., S. Muenzel, H. Herold, et al. 1994. *Astrophysical Journal* 431, pp. 754–760.
- Flock, M., J. P. Ruge, N. Dzyurkevich, et al. 2015. *Astronomy and Astrophysics* 574, A68, A68.
- Follette, K. B., J. Rameau, R. Dong, et al. 2017. *Astronomical Journal* 153.6, 264, p. 264.
- Forbrich, J. and T. Preibisch. 2007. *Astronomy and Astrophysics* 475.3, pp. 959–972.
- Foreman-Mackey, D., D. W. Hogg, D. Lang, et al. 2013. *Publications of the Astronomical Society of the Pacific* 125.925, p. 306.
- Foucart, F. and D. Lai. 2014. *Monthly Notices of the RAS* 445, pp. 1731–1744.
- Fu, W., H. Li, S. Lubow, et al. 2014. *Astrophysical Journal, Letters to the Editor* 795.2, L39, p. L39.
- Fuente, A., C. Baruteau, R. Neri, et al. 2017. *Astrophysical Journal, Letters to the Editor* 846.1, L3, p. L3.
- Fung, J. and R. Dong. 2015. *Astrophysical Journal, Letters to the Editor* 815.2, L21, p. L21.
- Gaia Collaboration, T. Prusti, J. H. J. de Bruijne, et al. 2016. *Astronomy and Astrophysics* 595, A1, A1.

- Gaia Collaboration, C. Babusiaux, F. van Leeuwen, et al. 2018a. *Astronomy and Astrophysics* 616, A10, A10.
- Gaia Collaboration, A. G. A. Brown, A. Vallenari, et al. 2018b. *Astronomy and Astrophysics* 616, A1, A1.
- Galli, D. and F. H. Shu. 1993. *Astrophysical Journal* 417, p. 220.
- Garcia Lopez, R., A. Natta, L. Testi, et al. 2006. *Astronomy and Astrophysics* 459.3, pp. 837–842.
- Garufi, A., S. P. Quanz, H. Avenhaus, et al. 2013. *Astronomy and Astrophysics* 560, A105, A105.
- Garufi, A., G. Meeus, M. Benisty, et al. 2017. *Astronomy and Astrophysics* 603, A21, A21.
- Ghez, A. M., D. W. McCarthy, J. L. Patience, et al. 1997. *Astrophysical Journal* 481.1, pp. 378–385.
- Gingold, R. A. and J. J. Monaghan. 1977. *Monthly Notices of the RAS* 181, pp. 375–389.
- Ginski, C., T. Stolker, P. Pinilla, et al. 2016. *Astronomy and Astrophysics* 595, A112, A112.
- Grady, C. A., G. Schneider, M. L. Sitko, et al. 2009. *Astrophysical Journal* 699.2, pp. 1822–1842.
- Grady, C. A., T. Muto, J. Hashimoto, et al. 2013. *Astrophysical Journal* 762.1, 48, p. 48.
- Greene, T. P., B. A. Wilking, P. Andre, et al. 1994. *Astrophysical Journal* 434, p. 614.
- Guilloteau, S., A. Dutrey, and M. Simon. 1999. *Astronomy and Astrophysics* 348, pp. 570–578.
- Guilloteau, S., E. Di Folco, A. Dutrey, et al. 2013. *Astronomy and Astrophysics* 549, A92, A92.
- Guilloteau, S., M. Simon, V. Piétu, et al. 2014. *Astronomy and Astrophysics* 567, A117, A117.
- Gundlach, B. and J. Blum. 2015. *Astrophysical Journal* 798, 34, p. 34.

- Gurwell, M. A., A. B. Peck, S. R. Hostler, et al. 2007. *From Z-Machines to ALMA: (Sub)Millimeter Spectroscopy of Galaxies*. Ed. by A. J. Baker, J. Glenn, A. I. Harris, et al. Vol. 375. Astronomical Society of the Pacific Conference Series, p. 234.
- Guzmán, V. V., K. I. Öberg, R. Loomis, et al. 2015. *Astrophysical Journal* 814.1, 53, p. 53.
- Haffert, S. Y., A. J. Bohn, J. de Boer, et al. 2019. *Nature Astronomy* 3, pp. 749–754.
- Haisch Karl E., J., E. A. Lada, and C. J. Lada. 2001. *Astrophysical Journal, Letters to the Editor* 553.2, pp. L153–L156.
- Hamaguchi, K., S. Yamauchi, and K. Koyama. 2005. *Astrophysical Journal* 618.1, pp. 360–384.
- Hammer, M., P. Pinilla, K. M. Kratter, et al. 2019. *Monthly Notices of the RAS* 482.3, pp. 3609–3621.
- Harris, R. J., S. M. Andrews, D. J. Wilner, et al. 2012. *Astrophysical Journal* 751, 115, p. 115.
- Hartmann, L., N. Calvet, E. Gullbring, et al. 1998. *Astrophysical Journal* 495, pp. 385–400.
- Heays, A. N., A. D. Bosman, and E. F. van Dishoeck. 2017. *Astronomy and Astrophysics* 602, A105, A105.
- Herbig, G. H. 1950. *Astrophysical Journal* 111, p. 11.
- Herczeg, G. J. and L. A. Hillenbrand. 2014. *Astrophysical Journal* 786.2, 97, p. 97.
- 2015. *Astrophysical Journal* 808.1, 23, p. 23.
- Hernández, J., L. Hartmann, T. Megeath, et al. 2007. *Astrophysical Journal* 662.2, pp. 1067–1081.
- Hildebrand, R. H. 1983. *Quarterly Journal of the Royal Astronomical Society* 24, pp. 267–282.
- Hily-Blant, P., V. Magalhaes, J. Kastner, et al. 2017. *Astronomy and Astrophysics* 603, L6, p. L6.
- Hioki, T., Y. Itoh, Y. Oasa, et al. 2011. *Publications of the Astronomical Society of Japan* 63, pp. 543–.

- Hunter, J. D. 2007. *Computing in Science and Engineering* 9.3, pp. 90–95.
- Inaba, S. and P. Barge. 2006. *Astrophysical Journal* 649.1, pp. 415–427.
- Isella, A., J. M. Carpenter, and A. I. Sargent. 2010. *Astrophysical Journal* 714.2, pp. 1746–1761.
- Isella, A., G. Guidi, L. Testi, et al. 2016. *Physical Review Letters* 117.25, 251101, p. 251101.
- Isella, A., M. Benisty, R. Teague, et al. 2019. *Astrophysical Journal, Letters to the Editor* 879.2, L25, p. L25.
- James, D. J., C. Melo, N. C. Santos, et al. 2006. *Astronomy and Astrophysics* 446.3, pp. 971–983.
- Jansen, D. J., M. Spaans, M. R. Hogerheijde, et al. 1995. *Astronomy and Astrophysics* 303, p. 541.
- Jeffries, R. D., J. M. Oliveira, T. Naylor, et al. 2007. *Monthly Notices of the RAS* 376.2, pp. 580–598.
- Johansen, A., J. S. Oishi, M.-M. Mac Low, et al. 2007. *Nature* 448.7157, pp. 1022–1025.
- Juhász, A., M. Benisty, A. Pohl, et al. 2015. *Monthly Notices of the RAS* 451.2, pp. 1147–1157.
- Kama, M., S. Bruderer, E. F. van Dishoeck, et al. 2016. *Astronomy and Astrophysics* 592, A83, A83.
- Kastner, J. H., B. Zuckerman, P. Hily-Blant, et al. 2008. *Astronomy and Astrophysics* 492.2, pp. 469–473.
- Kastner, J. H., P. Hily-Blant, D. R. Rodriguez, et al. 2014. *Astrophysical Journal* 793.1, 55, p. 55.
- Kastner, J. H., C. Qi, U. Gorti, et al. 2015. *Astrophysical Journal* 806.1, 75, p. 75.
- Kelly, B. C. 2007. *Astrophysical Journal* 665.2, pp. 1489–1506.
- Kennedy, G. M., M. C. Wyatt, B. Sibthorpe, et al. 2012. *Monthly Notices of the RAS* 421, pp. 2264–2276.
- Keppler, M., M. Benisty, A. Müller, et al. 2018. *Astronomy and Astrophysics* 617, A44, A44.

- Klahr, H. H. and T. Henning. 1997. *Icarus* 128.1, pp. 213–229.
- Kley, W. and R. P. Nelson. 2012. *Annual Review of Astronomy and Astrophysics* 50, pp. 211–249.
- Koerner, D. W., A. I. Sargent, and S. V. W. Beckwith. 1993. *Icarus* 106.1, pp. 2–10.
- Köhler, R. 2011. *Astronomy and Astrophysics* 530, A126, A126.
- Koller, J., H. Li, and D. N. C. Lin. 2003. *Astrophysical Journal, Letters to the Editor* 596.1, pp. L91–L94.
- Kostov, V. B., P. R. McCullough, T. C. Hinse, et al. 2013. *Astrophysical Journal* 770, 52, p. 52.
- Kostov, V. B., P. R. McCullough, J. A. Carter, et al. 2014. *Astrophysical Journal* 784, 14, p. 14.
- Kraus, S., A. Kreplin, M. Fukugawa, et al. 2017. *Astrophysical Journal, Letters to the Editor* 848.1, L11, p. L11.
- Krumholz, M. R., R. M. Crutcher, and C. L. H. Hull. 2013. *Astrophysical Journal, Letters to the Editor* 767.1, L11, p. L11.
- Lada, C. J. 1987. *Star Forming Regions*. Ed. by M. Peimbert and J. Jugaku. Vol. 115. IAU Symposium, p. 1.
- Laibe, G. and D. J. Price. 2014. *Monthly Notices of the RAS* 440, pp. 2136–2146.
- Lavalley, M., T. Isobe, and E. Feigelson. 1992. *Astronomical Data Analysis Software and Systems I*. Ed. by D. M. Worrall, C. Biemesderfer, and J. Barnes. Vol. 25. Astronomical Society of the Pacific Conference Series, p. 245.
- Law, C. J., L. Ricci, S. M. Andrews, et al. 2017. *Astronomical Journal* 154.6, 255, p. 255.
- Leinert, C., H. Zinnecker, N. Weitzel, et al. 1993. *Astronomy and Astrophysics* 278, pp. 129–149.
- Lepp, S. and A. Dalgarno. 1996. *Astronomy and Astrophysics* 306, pp. L21–L24.
- Lesur, G., P. Hennebelle, and S. Fromang. 2015. *Astronomy and Astrophysics* 582, L9, p. L9.

- Li, H., J. M. Finn, R. V. E. Lovelace, et al. 2000. *Astrophysical Journal* 533.2, pp. 1023–1034.
- Li, H., S. A. Colgate, B. Wendroff, et al. 2001. *Astrophysical Journal* 551.2, pp. 874–896.
- Lin, D. N. C. and J. Papaloizou. 1979b. *Monthly Notices of the RAS* 186, pp. 799–812.
- 1979a. *Monthly Notices of the RAS* 188, pp. 191–201.
- 1986. *Astrophysical Journal* 309, pp. 846–857.
- Lin, M.-K. 2012. *Monthly Notices of the RAS* 426.4, pp. 3211–3224.
- Lindegren, L., J. Hernández, A. Bombrun, et al. 2018. *Astronomy and Astrophysics* 616, A2, A2.
- Liu, H. B., E. I. Vorobyov, R. Dong, et al. 2017. *Astronomy and Astrophysics* 602, A19, A19.
- Lobo Gomes, A., H. Klahr, A. L. Uribe, et al. 2015. *Astrophysical Journal* 810.2, 94, p. 94.
- Lodato, G. and S. Facchini. 2013. *Monthly Notices of the RAS* 433, pp. 2157–2164.
- Lodato, G. and W. K. M. Rice. 2004. *Monthly Notices of the RAS* 351, pp. 630–642.
- Lodato, G., E. Delgado-Donate, and C. J. Clarke. 2005. *Monthly Notices of the RAS* 364, pp. L91–L95.
- Lodato, G. and D. J. Price. 2010. *Monthly Notices of the Royal Astronomical Society* 405.2, pp. 1212–1226.
- Loison, J.-C., V. Wakelam, and K. M. Hickson. 2014. *Monthly Notices of the RAS* 443.1, pp. 398–410.
- Lommen, D., S. T. Maddison, C. M. Wright, et al. 2009. *Astronomy and Astrophysics* 495.3, pp. 869–879.
- London, R. 1978. *Astrophysical Journal* 225, pp. 405–416.
- Long, F., G. J. Herczeg, I. Pascucci, et al. 2017. *Astrophysical Journal* 844.2, 99, p. 99.

- Long, F., P. Pinilla, G. J. Herczeg, et al. 2018. *Astrophysical Journal* 869.1, 17, p. 17.
- López Martí, B., J. Eisloffel, and R. Mundt. 2005. *Astronomy and Astrophysics* 444.1, pp. 175–186.
- López Martí, B., L. Spezzi, B. Merín, et al. 2010. *Astronomy and Astrophysics* 515, A31, A31.
- Lovelace, R. V. E., H. Li, S. A. Colgate, et al. 1999. *Astrophysical Journal* 513.2, pp. 805–810.
- Lubow, S. H., R. G. Martin, and C. Nixon. 2015. *Astrophysical Journal* 800, 96, p. 96.
- Lucy, L. B. 1977. *Astronomical Journal* 82, pp. 1013–1024.
- Luri, X., A. G. A. Brown, L. M. Sarro, et al. 2018. *Astronomy and Astrophysics* 616, A9, A9.
- Lynden-Bell, D. and J. E. Pringle. 1974. *Monthly Notices of the RAS* 168, pp. 603–637.
- Lyo, A. R., N. Ohashi, C. Qi, et al. 2011. *Astronomical Journal* 142.5, 151, p. 151.
- Lyra, W., A. Johansen, H. Klahr, et al. 2009. *Astronomy and Astrophysics* 493.3, pp. 1125–1139.
- Lyra, W., N. J. Turner, and C. P. McNally. 2015. *Astronomy and Astrophysics* 574, A10, A10.
- Lyra, W. and M.-K. Lin. 2013. *Astrophysical Journal* 775.1, 17, p. 17.
- Lyra, W. and M.-M. Mac Low. 2012. *Astrophysical Journal* 756.1, 62, p. 62.
- Macintosh, B. A., J. R. Graham, D. W. Palmer, et al. 2008. *SPIE Proceedings*. Vol. 7015. Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, p. 701518.
- Maire, A. L., T. Stolker, S. Messina, et al. 2017. *Astronomy and Astrophysics* 601, A134, A134.
- Manara, C. F., L. Testi, E. Rigliaco, et al. 2013. *Astronomy and Astrophysics* 551, A107, A107.

- Manara, C. F., L. Testi, G. J. Herczeg, et al. 2017. *Astronomy and Astrophysics* 604, A127, A127.
- Manara, C. F., A. Morbidelli, and T. Guillot. 2018. *Astronomy and Astrophysics* 618, L3, p. L3.
- Mann, R. K. and J. P. Williams. 2010. *Astrophysical Journal* 725.1, pp. 430–442.
- Marino, S., S. Casassus, S. Perez, et al. 2015. *Astrophysical Journal* 813.1, 76, p. 76.
- Maucó, K., J. Hernández, N. Calvet, et al. 2016. *Astrophysical Journal* 829.1, 38, p. 38.
- Maury, A. J., P. André, L. Testi, et al. 2019. *Astronomy and Astrophysics* 621, A76, A76.
- Mayor, M. and D. Queloz. 1995. *Nature* 378, pp. 355–359.
- McClure, M. K., E. A. Bergin, L. I. Cleaves, et al. 2016. *Astrophysical Journal* 831.2, 167, p. 167.
- McMullin, J. P., B. Waters, D. Schiebel, et al. 2007. *Astronomical Data Analysis Software and Systems XVI*. Ed. by R. A. Shaw, F. Hill, and D. J. Bell. Vol. 376. Astronomical Society of the Pacific Conference Series, p. 127.
- Mellon, R. R. and Z.-Y. Li. 2008. *Astrophysical Journal* 681.2, pp. 1356–1376.
- Meyer, M. R. and B. A. Wilking. 2009. *Publications of the Astronomical Society of the Pacific* 121.878, p. 350.
- Miotello, A., S. Bruderer, and E. F. van Dishoeck. 2014. *Astronomy and Astrophysics* 572, A96, A96.
- Miotello, A., E. F. van Dishoeck, M. Kama, et al. 2016. *Astronomy and Astrophysics* 594, A85, A85.
- Miotello, A., E. F. van Dishoeck, J. P. Williams, et al. 2017. *Astronomy and Astrophysics* 599, A113, A113.
- Miranda, R. and D. Lai. 2015. *Monthly Notices of the RAS* 452, pp. 2396–2409.
- Miranda, R., H. Li, S. Li, et al. 2017. *Astrophysical Journal* 835.2, 118, p. 118.
- Mittal, T. and E. Chiang. 2015. *Astrophysical Journal, Letters to the Editor* 798.1, L25, p. L25.

- Modigliani, A., P. Goldoni, F. Royer, et al. 2010. *SPIE Proceedings*. Vol. 7737. Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, p. 773728.
- Montesinos, M., S. Perez, S. Casassus, et al. 2016. *Astrophysical Journal, Letters to the Editor* 823.1, L8, p. L8.
- Morbidelli, A. and S. N. Raymond. 2016. *Journal of Geophysical Research (Planets)* 121.10, pp. 1962–1980.
- Morris, J. P. and J. J. Monaghan. 1997. *Journal of Computational Physics* 136, pp. 41–50.
- Murray, J. R. 1996. *Monthly Notices of the RAS* 279, pp. 402–414.
- Muto, T., C. A. Grady, J. Hashimoto, et al. 2012. *Astrophysical Journal, Letters to the Editor* 748.2, L22, p. L22.
- Nakagawa, Y., M. Sekiya, and C. Hayashi. 1986. *Icarus* 67, pp. 375–390.
- Nelson, A. F. and F. Marzari. 2016. *ArXiv e-prints*.
- Neuhäuser, R. and J. Forbrich. 2008. *Handbook of Star Forming Regions, Volume II: The Southern Sky ASP Monograph Publications, Vol. 5. Edited by Bo Reipurth, p.735*. Ed. by B. Reipurth. Vol. 5, p. 735.
- Neuhäuser, R., F. M. Walter, E. Covino, et al. 2000. *Astronomy and Astrophysics Supplement* 146, pp. 323–347.
- Ney, E. P., D. W. Strecker, and R. D. Gehrz. 1973. *Astrophysical Journal* 180, pp. 809–816.
- Nisini, B., S. Antonucci, T. Giannini, et al. 2005. *Astronomy and Astrophysics* 429, pp. 543–557.
- Öberg, K. I., R. Murray-Clay, and E. A. Bergin. 2011. *Astrophysical Journal, Letters to the Editor* 743.1, L16, p. L16.
- Öberg, K. I., K. Furuya, R. Loomis, et al. 2015. *Astrophysical Journal* 810.2, 112, p. 112.
- O’dell, C. R. and Z. Wen. 1994. *Astrophysical Journal* 436, p. 194.
- O’dell, C. R. and K. Wong. 1996. *Astronomical Journal* 111, p. 846.
- Orosz, J. A., W. F. Welsh, J. A. Carter, et al. 2012a. *Science* 337, pp. 1511–

- Orosz, J. A., W. F. Welsh, J. A. Carter, et al. 2012b. *Astrophysical Journal* 758, 87, p. 87.
- Paardekooper, S.-J., G. Lesur, and J. C. B. Papaloizou. 2010. *Astrophysical Journal* 725.1, pp. 146–158.
- Paczynski, B. 1977. *Astrophysical Journal* 216, pp. 822–826.
- Papaloizou, J. and J. E. Pringle. 1977. *Monthly Notices of the RAS* 181, pp. 441–454.
- Pascucci, I., L. Testi, G. J. Herczeg, et al. 2016. *Astrophysical Journal* 831.2, 125, p. 125.
- Patten, B. M. 1998. *Cool Stars, Stellar Systems, and the Sun*. Ed. by R. A. Donahue and J. A. Bookbinder. Vol. 154. Astronomical Society of the Pacific Conference Series, p. 1755.
- Pérez, L. M., A. Isella, J. M. Carpenter, et al. 2014. *Astrophysical Journal, Letters to the Editor* 783.1, L13, p. L13.
- Pérez, L. M., J. M. Carpenter, S. M. Andrews, et al. 2016. *Science* 353.6307, pp. 1519–1521.
- Pérez, S., S. Casassus, A. Hales, et al. 2019. *arXiv e-prints*, arXiv:1906.06305, arXiv:1906.06305.
- Peterson, D. E., A. Caratti o Garatti, T. L. Bourke, et al. 2011. *Astrophysical Journal, Supplement* 194.2, 43, p. 43.
- Pfalzner, S., P. Vogel, J. Scharwächter, et al. 2005. *Astronomy and Astrophysics* 437.3, pp. 967–976.
- Pichardo, B., L. S. Sparke, and L. A. Aguilar. 2005. *Monthly Notices of the RAS* 359, pp. 521–530.
- Pierens, A. and M.-K. Lin. 2018. *Monthly Notices of the RAS* 479.4, pp. 4878–4890.
- Piétu, V., S. Guilloteau, and A. Dutrey. 2005. *Astronomy and Astrophysics* 443.3, pp. 945–954.
- Pinilla, P., T. Birnstiel, L. Ricci, et al. 2012b. *Astronomy and Astrophysics* 538, A114, A114.
- Pinilla, P., M. Benisty, and T. Birnstiel. 2012a. *Astronomy and Astrophysics* 545, A81, A81.

- Pinilla, P., N. van der Marel, L. M. Pérez, et al. 2015. *Astronomy and Astrophysics* 584, A16, A16.
- Pinilla, P., L. M. Pérez, S. Andrews, et al. 2017. *Astrophysical Journal* 839.2, 99, p. 99.
- Pinte, C., D. J. Price, F. Ménard, et al. 2018. *Astrophysical Journal, Letters to the Editor* 860.1, L13, p. L13.
- Pinte, C., G. van der Plas, F. Ménard, et al. 2019. *Nature Astronomy*, p. 419.
- Pohl, A., P. Pinilla, M. Benisty, et al. 2015. *Monthly Notices of the RAS* 453.2, pp. 1768–1778.
- Pontoppidan, K. M., G. A. Blake, E. F. van Dishoeck, et al. 2008. *Astrophysical Journal* 684.2, pp. 1323–1329.
- Price, D. J. 2007. *Publications of the Astronomical Society of Australia* 24, pp. 159–173.
- 2012. *Advances in Computational Astrophysics: Methods, Tools, and Outcome*. Ed. by R. Capuzzo-Dolcetta, M. Limongi, and A. Tornambè. Vol. 453. Astronomical Society of the Pacific Conference Series, p. 249.
- Price, D. J. and C. Federrath. 2010. *Monthly Notices of the RAS* 406, pp. 1659–1674.
- Qi, C., K. I. Öberg, D. J. Wilner, et al. 2013. *Science* 341.6146, pp. 630–632.
- Rafikov, R. R. 2002. *Astrophysical Journal* 572.1, pp. 566–579.
- Raghavan, D., H. A. McAlister, T. J. Henry, et al. 2010. *Astrophysical Journal, Supplement* 190, pp. 1–42.
- Ragusa, E., G. Dipierro, G. Lodato, et al. 2017. *Monthly Notices of the RAS* 464.2, pp. 1449–1455.
- Reipurth, B. and H. Zinnecker. 1993. *Astronomy and Astrophysics* 278, pp. 81–108.
- Ricci, L., L. Testi, A. Natta, et al. 2010b. *Astronomy and Astrophysics* 512, A15, A15.
- Ricci, L., L. Testi, A. Natta, et al. 2010a. *Astronomy and Astrophysics* 521, A66, A66.

- Rice, W. K. M., G. Lodato, J. E. Pringle, et al. 2004. *Monthly Notices of the RAS* 355.2, pp. 543–552.
- Riddick, F. C., P. F. Roche, and P. W. Lucas. 2007. *Monthly Notices of the RAS* 381.3, pp. 1067–1076.
- Roddi er, C., F. Roddi er, M. J. Northcott, et al. 1996. *Astrophysical Journal* 463, p. 326.
- Rodmann, J., T. Henning, C. J. Chandler, et al. 2006. *Astronomy and Astrophysics* 446.1, pp. 211–221.
- Romero, G. A., M. R. Schreiber, L. A. Cieza, et al. 2012. *Astrophysical Journal* 749.1, 79, p. 79.
- Rosotti, G. P., A. Juhasz, R. A. Booth, et al. 2016. *Monthly Notices of the RAS* 459.3, pp. 2790–2805.
- Ru ız-Rodr ıguez, D., L. A. Cieza, J. P. Williams, et al. 2018. *Monthly Notices of the RAS* 478.3, pp. 3674–3692.
- Salter, D. M., M. R. Hogerheijde, R. F. J. van der Burg, et al. 2011. *Astronomy and Astrophysics* 536, A80, A80.
- Sargent, A. I. and S. V. W. Beckwith. 1991. *Astrophysical Journal, Letters to the Editor* 382, p. L31.
- Sch afer, C., R. Speith, and W. Kley. 2007. *Astronomy and Astrophysics* 470, pp. 733–739.
- Schwamb, M. E., J. A. Orosz, J. A. Carter, et al. 2013. *Astrophysical Journal* 768, 127, p. 127.
- Shakura, N. I. and R. A. Sunyaev. 1973b. *Astronomy and Astrophysics* 24, pp. 337–355.
- 1973a. *Astronomy and Astrophysics* 500, pp. 33–51.
- Shu, F. H., F. C. Adams, and S. Lizano. 1987. *Annual Review of Astronomy and Astrophysics* 25, pp. 23–81.
- Sicilia-Aguilar, A., T. Henning, A. Juh asz, et al. 2008. *Astrophysical Journal* 687.2, pp. 1145–1167.
- Sicilia-Aguilar, A., T. Henning, J. Kainulainen, et al. 2011. *Astrophysical Journal* 736.2, 137, p. 137.

- Sierra, A., S. Lizano, and P. Barge. 2017. *Astrophysical Journal* 850.2, 115, p. 115.
- Siess, L., E. Dufour, and M. Forestini. 2000. *Astronomy and Astrophysics* 358, pp. 593–599.
- Silber, J., T. Gledhill, G. Duchêne, et al. 2000. *Astrophysical Journal, Letters to the Editor* 536, pp. L89–L92.
- Simon, M. and L. Prato. 1995. *Astrophysical Journal* 450, p. 824.
- Simon, M., A. Dutrey, and S. Guilloteau. 2000. *Astrophysical Journal* 545, pp. 1034–1043.
- Stäuber, P., S. D. Doty, E. F. van Dishoeck, et al. 2005. *Astronomy and Astrophysics* 440.3, pp. 949–966.
- Stäuber, P., A. O. Benz, J. K. Jørgensen, et al. 2007. *Astronomy and Astrophysics* 466.3, pp. 977–988.
- Sternberg, A. and A. Dalgarno. 1995. *Astrophysical Journal, Supplement* 99, p. 565.
- Sternberg, A., F. Le Petit, E. Roueff, et al. 2014. *Astrophysical Journal* 790.1, 10, p. 10.
- Stolker, T., C. Dominik, H. Avenhaus, et al. 2016. *Astronomy and Astrophysics* 595, A113, A113.
- Stolker, T., M. Sitko, B. Lazareff, et al. 2017. *Astrophysical Journal* 849.2, 143, p. 143.
- Tachihara, K., T. Onishi, A. Mizuno, et al. 2002. *Astronomy and Astrophysics* 385, pp. 909–920.
- Takami, M., J. Bailey, and A. Chrysostomou. 2003. *Astronomy and Astrophysics* 397, pp. 675–691.
- Tang, Y.-W., A. Dutrey, S. Guilloteau, et al. 2016. *Astrophysical Journal* 820, 19, p. 19.
- Tazzari, M., L. Testi, A. Natta, et al. 2017. *Astronomy and Astrophysics* 606, A88, A88.
- Tazzari, M., F. Beaujean, and L. Testi. 2018. *Monthly Notices of the RAS* 476.4, pp. 4527–4542.

- Teague, R., S. Guilloteau, D. Semenov, et al. 2016. *Astronomy and Astrophysics* 592, A49, A49.
- Teague, R., J. Bae, E. A. Bergin, et al. 2018. *Astrophysical Journal, Letters to the Editor* 860.1, L12, p. L12.
- Terebey, S., F. H. Shu, and P. Cassen. 1984. *Astrophysical Journal* 286, pp. 529–551.
- Testi, L., F. D’Antona, F. Ghinassi, et al. 2001. *Astrophysical Journal, Letters to the Editor* 552.2, pp. L147–L150.
- Testi, L., A. Natta, D. S. Shepherd, et al. 2003. *Astronomy and Astrophysics* 403, pp. 323–328.
- Testi, L., T. Birnstiel, L. Ricci, et al. 2014. *Protostars and Planets VI*. Ed. by H. Beuther, R. S. Klessen, C. P. Dullemond, et al., p. 339.
- Testi, L., A. Natta, A. Scholz, et al. 2016. *Astronomy and Astrophysics* 593, A111, A111.
- Thi, W. F., G. J. van Zadelhoff, and E. F. van Dishoeck. 2004. *Astronomy and Astrophysics* 425, pp. 955–972.
- Tielens, A. G. G. M. and D. Hollenbach. 1985. *Astrophysical Journal* 291, pp. 747–754.
- Trapman, L., A. Miotello, M. Kama, et al. 2017. *Astronomy and Astrophysics* 605, A69, A69.
- Tychoniec, Ł., J. J. Tobin, A. Karska, et al. 2018. *Astrophysical Journal, Supplement* 238.2, 19, p. 19.
- van Boekel, R., M. Min, L. B. F. M. Waters, et al. 2005. *Astronomy and Astrophysics* 437.1, pp. 189–208.
- van Boekel, R., T. Henning, J. Menu, et al. 2017. *Astrophysical Journal* 837.2, 132, p. 132.
- van der Marel, N., E. F. van Dishoeck, S. Bruderer, et al. 2015b. *Astronomy and Astrophysics* 579, A106, A106.
- van der Marel, N., P. Pinilla, J. Tobin, et al. 2015a. *Astrophysical Journal, Letters to the Editor* 810.1, L7, p. L7.
- van der Marel, N., E. F. van Dishoeck, S. Bruderer, et al. 2016a. *Astronomy and Astrophysics* 585, A58, A58.

- van der Marel, N., P. Cazzoletti, P. Pinilla, et al. 2016b. *Astrophysical Journal* 832.2, 178, p. 178.
- van der Marel, N., E. F. van Dishoeck, S. Bruderer, et al. 2013. *Science* 340.6137, pp. 1199–1202.
- van Terwisga, S. E., E. F. van Dishoeck, P. Cazzoletti, et al. 2019. *Astronomy and Astrophysics* 623, A150, A150.
- van Zadelhoff, G. J., Y. Aikawa, M. R. Hogerheijde, et al. 2003. *Astronomy and Astrophysics* 397, pp. 789–802.
- Vernet, J., H. Dekker, S. D’Odorico, et al. 2011. *Astronomy and Astrophysics* 536, A105, A105.
- Visser, R., E. F. van Dishoeck, S. D. Doty, et al. 2009. *Astronomy and Astrophysics* 495.3, pp. 881–897.
- Visser, R., S. Bruderer, P. Cazzoletti, et al. 2018. *Astronomy and Astrophysics* 615, A75, A75.
- Von Neumann, J. and R. D. Richtmyer. 1950. *Journal of Applied Physics* 21, pp. 232–237.
- Vorobyov, E. I., V. Akimkin, O. Stoyanovskaya, et al. 2018. *Astronomy and Astrophysics* 614, A98, A98.
- Wada, K., H. Tanaka, T. Suyama, et al. 2009. *Astrophysical Journal* 702, pp. 1490–1501.
- Wakelam, V., E. Herbst, J. C. Loison, et al. 2012. *Astrophysical Journal, Supplement* 199.1, 21, p. 21.
- Walsh, C., T. J. Millar, and H. Nomura. 2010. *Astrophysical Journal* 722.2, pp. 1607–1623.
- Walter, F. M., F. J. Vrba, S. J. Wolk, et al. 1997. *Astronomical Journal* 114, p. 1544.
- Weidenschilling, S. J. 1977. *Monthly Notices of the RAS* 180, pp. 57–70.
- Welsh, W. F., J. A. Orosz, J. A. Carter, et al. 2012. *Nature* 481, pp. 475–479.
- Welsh, W. F., J. A. Orosz, J. A. Carter, et al. 2014. *IAU Symposium*. Ed. by N. Haghighipour. Vol. 293. IAU Symposium, pp. 125–132.
- Whipple, F. L. 1972. *From Plasma to Planet*. Ed. by A. Elvius, p. 211.

- White, R. J. and A. M. Ghez. 2001. *Astrophysical Journal* 556, pp. 265–295.
- White, R. J., A. M. Ghez, I. N. Reid, et al. 1999. *Astrophysical Journal* 520, pp. 811–821.
- Williams, J. P. and L. A. Cieza. 2011. *Annual Review of Astronomy and Astrophysics* 49.1, pp. 67–117.
- Winn, J. N. and D. C. Fabrycky. 2015. *Annual Review of Astronomy and Astrophysics* 53, pp. 409–447.
- Winter, A. J., C. J. Clarke, G. Rosotti, et al. 2018a. *Monthly Notices of the RAS* 475.2, pp. 2314–2325.
- Winter, A. J., C. J. Clarke, G. Rosotti, et al. 2018b. *Monthly Notices of the RAS* 478.2, pp. 2700–2722.
- Wolszczan, A. and D. A. Frail. 1992. *Nature* 355, pp. 145–147.
- Zhu, Z. and C. Baruteau. 2016. *Monthly Notices of the RAS* 458.4, pp. 3918–3926.
- Zhu, Z., L. Hartmann, and C. Gammie. 2010. *Astrophysical Journal* 713.2, pp. 1143–1158.

