

# LIST OF PUBLICATIONS

Alexander V. Krivov

## A. Books

1. V.V. Ivanov, **A.V. Krivov**, and P.A. Denissenkov (1997). *The Paradoxical Universe* (175 problems in astronomy). St. Petersburg University Press. 144 pp. (in Russian).

## B. Refereed book chapters and review papers

1. Q. Kral, **A.V. Krivov**, D. Defrère, R. van Lieshout, A. Bonsor, J.-C. Augereau, Ph. Thébault, S. Ertel, J. Lebreton, and O. Absil (2017). Exozodiacal Clouds: Hot and Warm Dust around Main Sequence Stars. *The Astronomical Review* **13**, 69–111.
2. B.C. Matthews, **A.V. Krivov**, M.C. Wyatt, G. Bryden, and C. Eiroa (2014). Observations, Modeling and Theory of Debris Disks. in *Protostars and Planets VI* (H. Beuther, R. Klessen, C. Dullemond, and Th. Henning, Eds.), Univ. of Arizona Press, Tucson, pp. 521–544.
3. **A.V. Krivov** (2010). Debris Disks: Seeing Dust, Thinking of Planetesimals and Planets. *Research in Astronomy and Astrophysics* **10**, 383–414.
4. **A.V. Krivov** (2007). Physics of Debris Disks. In *Dust in Planetary Systems* (H. Krüger and A. Graps, Eds.), ESA Publications, SP-643, pp. 123–132.
5. H. Krüger, M. Horányi, **A.V. Krivov**, and A.L. Graps (2004). Jovian Dust: Streams, Clouds and Rings. In *Jupiter: The Planet, Satellites & Magnetosphere* (Eds. F. Bagenal, W. McKinnon, and T. Dowling), Cambridge Univ. Press, pp. 219–240.
6. **A.V. Krivov** and M. Banaszekiewicz (2001). Dust Influx to Titan from Hyperion. In *Collisional Processes in the Solar System* (Eds. M. Ya. Marov and H. Rickman), *Astrophysics and Space Science Library*, Vol. 261, Kluwer, Dordrecht, pp. 265–276.

## C. Refereed papers

### Submitted

1. M. Booth, T. D. Pearce, **A. V. Krivov**, M. C. Wyatt, W. R. F. Dent, A. S. Hales, J.-F. Lestrade, F. Cruz-S áenz de Miera, V. C. Faramaz Gorka, T. Löhne, and M. Chavez-Dagostino (2022). ALMA detection of  $\epsilon$  Eridani’s resonant clumps. *Mon. Not. Roy. Astron. Soc.* (submitted).

### 2022

2. T. D. Pearce, F. Kirchschrager, G. Rouillé, S. Ertel, A. Bensberg, **A. V. Krivov**, M. Booth, S. Wolf, and J.-C. Augereau (2022). Hot exozodis: cometary supply without trapping is unlikely to be the mechanism. *Mon. Not. Roy. Astron. Soc.* **517**, 1436–1451.

3. T. D. Pearce, R. Launhardt, R. Ostermann, G. M. Kennedy, M. Gennaro, M. Booth, **A. V. Krivov**, G. Cugno, T. K. Henning, A. Quirrenbach, A. Musso Barucci, E. C. Matthews, H. L. Ruh, and J. M. Stone (2022). Planet populations inferred from debris discs. Insights from 178 debris systems in the ISPY, LEECH, and LStEN planet-hunting surveys. *Astronomy and Astrophysics* **659**, id.A135, 42 pp.

2021

4. T. D. Pearce, H. Beust, V. Faramaz, M. Booth, **A. V. Krivov**, T. Löhne, and P. P. Poblete (2021). Fomalhaut b could be massive and sculpting the narrow, eccentric debris disc, if in mean-motion resonance with it. *Mon. Not. Roy. Astron. Soc.* **503**, 4767–4786.
5. M. Booth, M. Schultz, **A. V. Krivov**, S. Marino, T.D. Pearce, and R.Launhardt (2021). Resolving the outer ring of HD 38206 using ALMA and constraining limits on planets in the system. *Mon. Not. Roy. Astron. Soc.* **500**, 1604–1611.
6. **A. V. Krivov** and M. C. Wyatt (2021). Solution to the debris disc mass problem: planetesimals are born small? *Mon. Not. Roy. Astron. Soc.* **500**, 718–735.

2020

7. F. Kirchschrager, S. Ertel, S. Wolf, A. Matter, and **A. V. Krivov** (2020). First L band detection of hot exozodiacal dust with VLT/MATISSE. *Mon. Not. Roy. Astron. Soc.* **499**, L47–L52.
8. P. Luppe, **A. V. Krivov**, M. Booth, and Lestrade, J.-F. (2020). Observability of dusty debris discs around M-stars. *Mon. Not. Roy. Astron. Soc.* **499**, 3932–3942.
9. T. D. Pearce, **A. V. Krivov**, and M. Booth (2020). Gas trapping of hot dust around main-sequence stars. *Mon. Not. Roy. Astron. Soc.* **498**, 2798–2813.

2019

10. N. Pawellek, A. Moór, I. Pascucci, and **A. V. Krivov** (2019). Dust Spreading in Debris Discs: Do Small Grains Cling on to Their Birth Environment? *Mon. Not. Roy. Astron. Soc.* **487**, 5874–5888.
11. F. Geiler, **A.V. Krivov**, M. Booth, and T. Löhne (2019). The Scattered Disc of HR 8799. *Mon. Not. Roy. Astron. Soc.* **483**, 332–341.

2018

12. M. Kim, S. Wolf, T. Löhne, F. Kirchschrager, and **A.V. Krivov** (2018). Impact of Planetesimal Eccentricities and Material Strength on the Appearance of Eccentric Debris Disks. *Astronomy and Astrophysics* **618**, A38.
13. **A.V. Krivov** and M. Booth (2018). Self-Stirring of Debris Discs by Planetesimals Formed by Pebble Concentration. *Mon. Not. Roy. Astron. Soc.* **479**, 3300–3307.
14. **A.V. Krivov**, A. Ide, T. Löhne, A. Johansen, and J. Blum (2018). Debris Disc Constraints on Planetesimal Formation *Mon. Not. Roy. Astron. Soc.* **474**, 2564–2575.
15. F. Kirchschrager, S. Wolf, R. Brunngräber, A. Matter, **A. V. Krivov**, and A. Labdon (2018). Modelling of Mid-Infrared Interferometric Signature of Hot Exozodiacal Dust Emission. *Mon. Not. Roy. Astron. Soc.* **473**, 2633–2638.

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16. T. Löhne, **A.V. Krivov**, F. Kirchschrager, J.A. Sende, and S. Wolf (2017). Collisions and Drag in Debris Discs with Eccentric Parent Belts. *Astronomy and Astrophysics* **605**, A7.
17. K.Y.L. Su, J.M. De Buizer, G.H. Rieke, **A.V. Krivov**, T. Löhne, M. Marengo, K.R. Stapelfeldt, N.P. Ballering, and W.D. Vacca (2017). The Inner 25 AU Debris Distribution in the  $\epsilon$  Eri System. *Astronomical Journal* **153**, 226 (12 pp).
18. F. Geiler and **A.V. Krivov** (2017). Does Warm Debris Dust Stem from Asteroid Belts? *Mon. Not. Roy. Astron. Soc.* **468**, 959–970.
19. F. Kirchschrager, S. Wolf, **A.V. Krivov**, H. Mutschke, and R. Brunngräber (2017). Constraints on the Structure of Hot Exozodiacal Dust Belts. *Mon. Not. Roy. Astron. Soc.* **467**, 1614–1626.

2016

20. B. Montesinos, C. Eiroa, **A. V. Krivov**, J. P. Marshall, G. L. Pilbratt, R. Liseau, A. Mora, J. Maldonado, S. Wolf, S. Ertel, A. Bayo, J.-C. Augereau, A. M. Heras, M. Fridlund, W. C. Danchi, E. Solano, F. Kirchschrager, C. del Burgo, and D. Montes (2016). Incidence of Debris Discs around FGK Stars in the Solar Neighbourhood. *Astronomy and Astrophysics* **593**, A51 (31 pp).
21. Ch. Schüppler, **A. V. Krivov**, T. Löhne, M. Booth, F. Kirchschrager, and S. Wolf (2016). Origin and Evolution of Two-Component Debris Discs and an Application to the  $q^1$  Eridani System. *Mon. Not. Roy. Astron. Soc.* **461**, 2146–2154.

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22. N. Pawellek and **A. V. Krivov** (2015). The Dust Grain Size – Stellar Luminosity Trend in Debris Discs. *Mon. Not. Roy. Astron. Soc.* **454**, 3207–3221.
23. Ch. Schüppler, T. Löhne, **A. V. Krivov**, S. Ertel, J. P. Marshall, S. Wolf, M. C. Wyatt, J.-C. Augereau, and S. A. Metchev (2015). Collisional Modelling of the AU Microscopii Debris Disc. *Astronomy and Astrophysics* **581**, A97.
24. A. Moór, Á. Kóspál, P. Ábrahám, D. Apai, Z. Balog, C. Grady, T. Henning, A. Juhász, C. Kiss, **A. V. Krivov**, N. Pawellek, and G. M. Szabó (2015). Stirring in Massive, Young Debris Discs from Spatially Resolved Herschel Images. *Mon. Not. Roy. Astron. Soc.* **447**, 577–597.
25. C. Reinert, H. Mutschke, **A. V. Krivov**, T. Löhne, and P. Mohr (2015). Absorption of Crystalline Water Ice in the Far Infrared at Different Temperatures. *Astronomy and Astrophysics* **573**, A29.
26. R. Liseau, W. Vlemmings, A. Bayo, E. Bertone, J.-H. Black, C. del Burgo, M. Chavez, W. Danchi, V. de la Luz, C. Eiroa, S. Ertel, M. C. W. Fridlund, K. Justtanont, **A. V. Krivov**, J. P. Marshall, A. Mora, B. Montesinos, L.-A. Nyman, G. Olofsson, J. Sanz-Forcada, P. Thébault, and G.-J. White (2015). ALMA Observations of  $\alpha$  Centauri. First Detection of Main-Sequence Stars at 3 mm Wavelength. *Astronomy and Astrophysics Letters* **573**, L4.

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27. N. Pawellek, **A. V. Krivov**, J. P. Marshall, B. Montesinos, P. Ábrahám, A. Moór, G. Bryden, and C. Eiroa (2014). Disk Radii and Grain Sizes in Herschel-Resolved Debris Disks. *Astrophysical Journal* **792**, 65 (19 pp).

28. Ch. Schüppler, T. Löhne, **A. V. Krivov**, S. Ertel, J. P. Marshall, and C. Eiroa (2014). Collisional Modelling of the Debris Disc around HIP 17439. *Astronomy and Astrophysics* **567**, A127.
29. Ch. Vitense, **A.V. Krivov**, and T. Löhne (2014). Will *New Horizons* See Dust Clumps in the Edgeworth-Kuiper Belt? *Astronomical Journal* **147**, 154.
30. P. Riviere-Marichalar, D. Barrado, B. Montesinos, G. Duchêne, H. Bouy, C. Pinte, F. Menard, J. Donaldson, C. Eiroa, **A. V. Krivov**, I. Kamp, I. Mendiguiña, W. R. F. Dent, and J. Lillo-Box (2014). Gas and Dust in the Beta Pictoris Moving Group as Seen by the Herschel Space Observatory. *Astronomy and Astrophysics* **565**, A68.
31. J. Wiegert, R. Liseau, Ph. Thébault, G. Olofsson, A. Mora, G. Bryden, J. P. Marshall, C. Eiroa, B. Montesinos, D. Ardila, J.-C. Augereau, A. Bayo Aran, W. C. Danchi, C. del Burgo, S. Ertel, M. C. W. Fridlund, M. Hajigholi, **A. V. Krivov**, G. L. Pilbratt, A. Roberge, G. J. White, and S. Wolf (2014). How dusty is  $\alpha$  Centauri? Excess or Non-Excess over the Infrared Photospheres of Main-Sequence Stars. *Astronomy and Astrophysics* **563**, A102.
32. S. Ertel, J.P. Marshall, J.-C. Augereau, **A. V. Krivov**, T. Löhne, C. Eiroa, A. Mora, C. del Burgo, B. Montesinos, G. Bryden, W. Danchi, F. Kirchschrager, R. Liseau, J. Maldonado, G.L. Pilbratt, Ch. Schüppler, Ph. Thébault, G. J. White, and S. Wolf (2014). Potential Multi-Component Structure of the Debris Disk around HIP 17439 Revealed by Herschel/DUNES. *Astronomy and Astrophysics* **561**, A114.

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33. J. P. Marshall, **A. V. Krivov**, C. del Burgo, C. Eiroa, A. Mora, B. Montesinos, S. Ertel, G. Bryden, R. Liseau, J.-C. Augereau, A. Bayo, W. Danchi, T. Löhne, J. Maldonado, G. L. Pilbratt, K. Stapelfeldt, Ph. Thébault, G. J. White, and S. Wolf (2013). Herschel observations of the debris disc around HIP 92043. *Astronomy and Astrophysics* **557**, A58.
34. **A. V. Krivov**, C. Eiroa, T. Löhne, J. P. Marshall, B. Montesinos, C. del Burgo, O. Absil, D. Ardila, J.-C. Augereau, A. Bayo, G. Bryden, W. Danchi, S. Ertel, J. Lebreton, R. Liseau, A. Mora, A. J. Mustill, H. Mutschke, R. Neuhäuser, G. L. Pilbratt, A. Roberge, T. O. B. Schmidt, K. R. Stapelfeldt, Ph. Thébault, Ch. Vitense, G. J. White, and S. Wolf (2013). Herschel's "Cold Debris Disks": Background Galaxies or Quiescent Rims of Planetary Systems? *Astrophysical Journal* **772**, 32.
35. J. K. Donaldson, J. Lebreton, A. Roberge, J.-C. Augereau, and **A. V. Krivov** (2013). Modeling the HD 32297 debris disk with far-IR Herschel data. *Astrophysical Journal* **772**, 17.
36. C. Eiroa, J. P. Marshall, A. Mora, B. Montesinos, O. Absil, J.-C. Augereau, A. Bayo, G. Bryden, W. Danchi, C. del Burgo, S. Ertel, M. Fridlund, A. M. Heras, **A. V. Krivov**, R. Launhardt, R. Liseau, T. Löhne, J. Maldonado, G. L. Pilbratt, A. Roberge, J. Rodmann, J. Sanz-Forcada, E. Solano, K. Stapelfeldt, Ph. Thébault, S. Wolf, D. Ardila, M. Arévalo, C. Beichmann, V. Faramaz, B. M. González-García, R. Gutiérrez, J. Lebreton, R. Martínez-Arnáiz, G. Meeus, D. Montes, G. Olofsson, K. Y. L. Su, G. J. White, D. Barrado, M. Fukagawa, E. Grün, I. Kamp, R. Lorente, A. Morbidelli, S. Müller, H. Mutschke, T. Nakagawa, I. Ribas, and H. Walker (2013). DUst Around NEArby Stars. The survey observational results. *Astronomy and Astrophysics* **555**, A11.
37. W. R. F. Dent, W. F. Thi, I. Kamp, J. P. Williams, F. Menard, S. Andrews, D. Ardila, G. Aresu, J.-C. Augereau, D. Barrado y Navascues, S. Brittain, A. Carmona, D. Ciardi, W. Danchi, J.

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38. R. Liseau, B. Montesinos, G. Olofsson, G. Bryden, J. P. Marshall, D. Ardila, A. Bayo Aran, W. C. Danchi, C. del Burgo, C. Eiroa, S. Ertel, M. C. W. Fridlund, **A.V. Krivov**, G. L. Pilbratt, A. Roberge, Ph. Thébault, J. Wiegert, and G. J. White (2013).  $\alpha$  Centauri A in the far infrared. First measurement of the temperature minimum of a star other than the Sun. *Astronomy and Astrophysics Letters* **549**, L7.

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39. T. Löhne, C. Eiroa, J.-C. Augereau, S. Ertel, J. P. Marshall, A. Mora, O. Absil, K. Stapelfeldt, P. Thébault, A. Bayo, C. del Burgo, W. Danchi, **A.V. Krivov**, J. Lebreton, G. Letawe, P. Magain, J. Maldonado, B. Montesinos, G. L. Pilbratt, G. J. White, and S. Wolf (2012). Debris disks as seen by Herschel/DUNES. *Astronomische Nachrichten* **333**, 441-446.
40. J. K. Donaldson, A. Roberge, C. H. Chen, J.-C. Augereau, W. R. F. Dent, C. Eiroa, **A. V. Krivov**, G. S. Mathews, G. Meeus, F. Ménard, P. Riviere-Marichalar, and G. Sandell (2012). Herschel PACS Observations and Modeling of Debris Disks in the Tucana-Horologium Association. *Astrophysical Journal* **753**, 147 (12 pp).
41. S. Ertel, S. Wolf, J. P. Marshall, C. Eiroa, J.-C. Augereau, **A. V. Krivov**, T. Löhne, O. Absil, D. Ardila, M. Arévalo, A. Bayo, C. del Burgo, J. Greaves, G. Kennedy, J. Lebreton, R. Liseau, J. Maldonado, B. Montesinos, A. Mora, G. L. Pilbratt, J. Sanz-Forcada, K. Stapelfeldt, and G. White (2012). A Peculiar Class of Debris Disks from Herschel/DUNES. Steep Spectral Energy Distributions. *Astronomy and Astrophysics* **541**, A148.
42. Ch. Vitense, **A.V. Krivov**, H. Kobayashi, and T. Löhne (2012). An Improved Model of the Edgeworth-Kuiper Debris Disk. *Astronomy and Astrophysics* **540**, A30.
43. T. Löhne, J.-C. Augereau, S. Ertel, J. P. Marshall, C. Eiroa, A. Mora, O. Absil, K. Stapelfeldt, P. Thébault, C. del Burgo, W. Danchi, **A.V. Krivov**, J. Lebreton, G. Letawe, P. Magain, J. Maldonado, B. Montesinos, G. L. Pilbratt, G. J. White, and S. Wolf (2012). Modelling the Huge, Herschel-Resolved Debris Ring around HD 207129. *Astronomy and Astrophysics* **537**, A110.

### 2011

44. C. Eiroa, J. Marshall, A. Mora, **A. V. Krivov**, B. Montesinos, O. Absil, D. Ardila, M. Arévalo, J.-Ch. Augereau, A. Bayo, W. Danchi, C. del Burgo, S. Ertel, M. Fridlund, B.M. González-García, A. M. Heras, R. Liseau, J. Maldonado, G. Meeus, D. Montes, G. L. Pilbratt, A. Roberge, J. Sanz-Forcada, K. Stapelfeldt, P. Thébault, G. J. White, and S. Wolf (2011). Herschel Discovery of a New Class of Cold, Faint Debris Discs. *Astronomy and Astrophysics Letters* **536**, L4.
45. **A.V. Krivov**, M. Reidemeister, S. Fiedler, T. Löhne, and R. Neuhauser (2011). Debris Disk Candidates in Systems with Transiting Planets. *Mon. Not. Roy. Astron. Soc. Letters* **418**, L15–L19.

46. H. Kobayashi, H. Tanaka, and **A.V. Krivov** (2011). Planetary Core Formation with Collisional Fragmentation and Atmosphere to Form Gas Giant Planets. *Astrophysical Journal* **738**, 35 (11 pp).
47. J. P. Marshall, T. Löhne, B. Montesinos, **A.V. Krivov**, C. Eiroa, O. Absil, G. Bryden, J. Maldonado, A. Mora, J. Sanz-Forcada, D. Ardila, J.-C. Augereau, A. Bayo, C. Del Burgo, W. Danchi, S. Ertel, D. Fedele, M. Fridlund, J. Lebreton, B.M. González-García, R. Liseau, G. Meeus, S. Müller, G.L. Pilbratt, A. Roberge, K. Stapelfeldt, Ph. Thébault, G.J. White, and S. Wolf (2011). A Herschel Resolved Far-Infrared Dust Ring around HD 207129. *Astronomy and Astrophysics* **529**, A117.
48. M. Reidemeister, **A.V. Krivov**, C.C. Stark, J.-C. Augereau, T. Löhne, and S. Müller (2011). The Cold Origin of the Warm Dust around  $\epsilon$  Eridani. *Astronomy and Astrophysics* **527**, A57.

2010

49. Ch. Vitense, **A.V. Krivov**, and T. Löhne (2010). The Edgeworth-Kuiper Debris Disk. *Astronomy and Astrophysics* **520**, A32.
50. H. Kobayashi, H. Tanaka, **A.V. Krivov**, and S. Inaba (2010). Planetary Growth with Collisional Fragmentation and Gas Drag. *Icarus* **209**, 836–847.
51. R. Liseau, C. Eiroa, D. Fedele, J.-C. Augereau, , G. Olofsson, B. González, J. Maldonado, B. Montesinos, A. Mora, O. Absil, D. Ardila, D. Barrado, A. Bayo, C.A. Beichman, G. Bryden, W.C. Danchi, C. Del Burgo, S. Ertel, C.W.M. Fridlund, A.M. Heras, **A. V. Krivov**, R. Launhardt, J. Lebreton, T. Löhne, J.P. Marshall, G. Meeus, S. Müller, G. L. Pilbratt, A. Roberge, J. Rodmann, E. Solano, K. R. Stapelfeldt, Ph. Thébault, G. J. White, and S. Wolf (2010). Resolving the cold debris disc around a planet-hosting star. PACS Photometric Imaging Observations of  $q^1$  Eri (HD 10647, HR 506). *Astronomy and Astrophysics* **518**, L132.
52. C. Eiroa, D. Fedele, J. Maldonado, B.M González-García, J. Rodmann, A.M. Heras, G.L. Pilbratt, J.-C. Augereau, A. Mora, B. Montesinos, D. Ardila, G. Bryden, R. Liseau, K. R. Stapelfeldt, R. Launhardt, E. Solano, A. Bayo, O. Absil, M. Arévalo, D. Barrado, C. Beichman, W. Danchi, C. Del Burgo, S. Ertel, C.W.M. Fridlund, M. Fukagawa, R. Gutiérrez, E. Grün, I. Kamp, **A. V. Krivov**, J. Lebreton, T. Löhne, R. Lorente, J.P. Marshall, R. Martínez-Arnáiz, G. Meeus, D. Montes, A. Morbidelli, S. Müller, H. Mutschke, T. Nakagawa, G. Olofsson, I. Ribas, A. Roberge, J. Sanz-Forcada, Ph. Thébault, H. Walker, G. J. White, and S. Wolf (2010). Cold DUst around NEarby Stars (DUNES). First Results: A resolved Exo-Kuiper Belt around the Solar-like Star  $\zeta^2$  Ret. *Ibid.*, **518**, L131.
53. G. S. Mathews, W. R. F. Dent, J. P. Williams, C. D. Howard, G. Meeus, B. Riaz, A. Roberge, G. Sandell, B. Vandenbussche, G. Duchêne, I. Kamp, F. Ménard, B. Montesinos, C. Pinte, W.-F. Thi, P. Woitke, J. M. Alacid, S. Andrews, D. R. Ardila, G. Aresu, J.-C. Augereau, D. Barrado, S. Brittain, D. R. Ciardi, W. Danchi, C. Eiroa, D. Fedele, C.A. Grady, I. de Gregorio-Monsalvo, A. Heras, N. Huelamo, **A. V. Krivov**, J. Lebreton, R. Liseau, C. Martin-Zaïdi, I. Mendigutía, A. Mora, M. Morales-Calderon, H. Nomura, E. Pantin, I. Pascucci, N. Phillips, L. Podio, D. R. Poelman, S. Ramsay, K. Rice, P. Riviere-Marichalar, E. Solano, I. Tilling, H. Walker, G. J. White, and G. G. Wright (2010). GAS in Protoplanetary Systems (GASPS). I. First results. *Ibid.*, L127.
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