

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. **A.V. Krivov** (2010). Debris Disks: Seeing Dust, Thinking of Planetesimals and Planets. *Research in Astronomy and Astrophysics* **10**, 383–414.
2. **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.
3. 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.
4. **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

PAPERS SUBMITTED

1. Ch. Vitense, **A.V. Krivov**, H. Kobayashi, and T. Löhne. An Improved Model of the Edgeworth-Kuiper Debris Disk. *Astronomy and Astrophysics* (submitted).
2. 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. A Peculiar Class of Debris Disks from Herschel/DUNES. Steep Spectral Energy Distributions. *Astronomy and Astrophysics* (submitted).

2012

3. 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

4. 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.
5. **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.
6. 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 (11pp).
7. 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.
8. 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 ϵ Eridani. *Astronomy and Astrophysics* **527**, A57.

2010

9. Ch. Vitense, **A.V. Krivov**, and T. Löhne (2010). The Edgeworth-Kuiper Debris Disk. *Astronomy and Astrophysics* **520**, A32.
10. H. Kobayashi, H. Tanaka, **A.V. Krivov**, and S. Inaba (2010). Planetary Growth with Collisional Fragmentation and Gas Drag. *Icarus* **209**, 836–847.
11. 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.
12. 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. Guttiéres, 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 ζ^2 Ret. *Ibid.*, **518**, L131.

13. 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.
14. C. Pinte, P. Woitke, P.; F. Ménard, G. Duchêne, I. Kamp, G. Meeus, G. Mathews, C. D. Howard, C. A. Grady, W.-F. Thi, I. Tilling, J.-C. Augereau, W. R. F. Dent, J. M. Alacid, S. Andrews, D. R. Ardila, G. Aresu, D. Barrado, S. Brittain, D. R. Ciardi, W. Danchi, C. Eiroa, D. Fedele, I. de Gregorio-Monsalvo, A. Heras, N. Huelamo, **A. V. Krivov**, J. Lebreton, R. Liseau, C. Martin-Zaïdi, I. Mendigutía, B. Montesinos, A. Mora, M. Morales-Calderon, H. Nomura, E. Pantin, I. Pascucci, N. Phillips, L. Podio, D. R. Poelman, S. Ramsay, B. Riaz, K. Rice, P. Riviere-Marichalar, A. Roberge, G. Sandell, E. Solano, B. Vandenbussche, H. Walker, J. P. Williams, G. J. White, and G. G. Wright (2010). The Herschel view of GAS in Protoplanetary Systems (GASPS). First comparisons with a large grid of models. *Ibid.*, L126.
15. W.-F. Thi, G. Mathews, F. Ménard, P. Woitke, G. Meeus, P. Riviere-Marichalar, C. Pinte, C. D. Howard, A. Roberge, G. Sandell, I. Pascucci, B. Riaz, C. A. Grady, W. R. F. Dent, I. Kamp, G. Duchêne, J.-C. Augereau, E. Pantin, B. Vandenbussche, I. Tilling, J. P. Williams, C. Eiroa, D. Barrado, J. M. Alacid, S. Andrews, D. R. Ardila, G. Aresu, S. Brittain, D. R. Ciardi, W. Danchi, D. Fedele, I. de Gregorio-Monsalvo, A. Heras, N. Huelamo, **A. V. Krivov**, J. Lebreton, R. Liseau, C. Martin-Zaïdi, I. Mendigutía, B. Montesinos, A. Mora, M. Morales-Calderon, H. Nomura, N. Phillips, L. Podio, D. R. Poelman, S. Ramsay, K. Rice, E. Solano, H. Walker, G. J. White, and G. G. Wright (2010). Herschel-PACS observation of the 10 Myr old T Tauri disk TW Hya. Constraining the disk gas mass. *Ibid.*, L125.
16. G. Meeus, C. Pinte, P. Woitke, B. Montesinos, B.; Mendigutía, P. Riviere-Marichalar, C. Eiroa, G. S. Mathews, B. Vandenbussche, C. D. Howard, A. Roberge, G. Sandell, G. Duchêne, F. Ménard, C. A. Grady, W. R. F. Dent, I. Kamp, J.-C. Augereau, W.-F. Thi, I. Tilling, J. M. Alacid, S. Andrews, D. R. Ardila, G. Aresu, D. Barrado, S. Brittain, D. R. Ciardi, W. Danchi, D. Fedele, I. de Gregorio-Monsalvo, A. Heras, N. Huelamo, **A. V. Krivov**, J. Lebreton, R. Liseau, C. Martin-Zaïdi, A. Mora, M. Morales-Calderon, H. Nomura, E. Pantin, I. Pascucci, N. Phillips, L. Podio, D. R. Poelman, S. Ramsay, B. Riaz, K. Rice, E. Solano, H. Walker, G. J. White, J. P. Williams, and G. G. Wright (2010). Gas in the protoplanetary disc of HD 169142: Herschel's view. *Ibid.*, L124.
17. S. Müller, T. Löhne, and **A.V. Krivov** (2010). The Debris Disk of Vega: A Steady-State Collisional Cascade, Naturally, *Astrophysical Journal* **708**, 1728–1747.

2009

18. **A.V. Krivov**, F. Herrmann, A. Brandeker, and Ph. Thébault (2009). Can Gas in Young Debris Disks Be Constrained by Their Radial Brightness Profiles? *Astronomy and Astrophysics* **507**, 1503–1516.
19. V.V. Dikarev, O. Preuss, S. Solanki, H. Krüger, H., and **A.V. Krivov** (2009). The Local Dust Foregrounds in the Microwave Sky: I. Thermal Emission Spectra. *Astrophysical Journal* **705**, 670–682.

20. M. Reidemeister, **A.V. Krivov**, T. O. B. Schmidt, S. Fiedler, S. Müller, T. Löhne, and R. Neuhäuser (2009). A Possible Architecture of the Planetary System HR 8799 *Astronomy and Astrophysics* **503**, 247–258.

2008

21. **A.V. Krivov**, S. Müller, T. Löhne, and H. Mutschke (2008). Collisional and Thermal Emission Models of Debris Disks: Towards Planetesimal Population Properties. *Astrophysical Journal* **687**, 608–622.
22. V.V. Dikarev, O. Preuss, S. Solanki, H. Krüger, H., and **A.V. Krivov** (2008). Understanding the WMAP Results: Low-Order Multipoles and Dust in the Vicinity of the Solar System. *Earth, Moon, and Planets* **102**, 555–561.
23. T. Löhne, **A.V. Krivov**, and J. Rodmann (2008). Long-Term Collisional Evolution of Debris Disks. *Astrophysical Journal* **673**, 1123–1137.

2007

24. F. Herrmann and **A.V. Krivov** (2007). Effects of Photophoresis on the Evolution of Transitional Circumstellar Disks. *Astronomy and Astrophysics* **476**, 829–839.
25. M. Queck, **A.V. Krivov**, M. Sremčević, and Ph. Thébault (2007). Collisional Velocities and Rates in Resonant Planetesimal Belts. *Celestial Mechanics and Dynamical Astronomy* **99**, 169–196.
26. F. Freistetter, **A.V. Krivov**, and T. Löhne (2007). Planets of β Pictoris revisited. *Astronomy and Astrophysics* **466**, 389–393.
27. **A.V. Krivov**, M. Queck, T. Löhne, and M. Sremčević (2007). On the Nature of Clumps in Debris Disks. *Astronomy and Astrophysics* **462**, 199–210.

2006

28. **A.V. Krivov**, T. Löhne, and M. Sremčević (2006). Dust Distributions in Debris Disks: Effects of Gravity, Radiation Pressure and Collisions. *Astronomy and Astrophysics* **455**, 509–519.
29. **A.V. Krivov**, A.G. Feofilov, and V.V. Dikarev (2006). Search for the Putative Dust Belts of Mars: The Late 2007 Opportunity. *Planetary and Space Science* **54**, 871–878.
30. V.V. Dikarev, **A.V. Krivov**, and E. Grün (2006). Two Stages of Dust Delivery from Satellites to Planetary Rings. *Planetary and Space Science* **54**, 1014–1023.
31. M. Makuch, N.V. Brilliantov, M. Sremčević, F. Spahn, and **A.V. Krivov** (2006). Stochastic Circumplanetary Dynamics of Rotating Non-Spherical Dust Particles. *Planetary and Space Science* **54**, 855–870.
32. F. Spahn, N. Albers, M. Hörning, S. Kempf, **A.V. Krivov**, M. Makuch, J. Schmidt, M. SeiB, and M. Sremčević (2006). E Ring Dust Sources: Implications from Cassini’s Dust Measurements. *Planetary and Space Science* **54**, 1024–1032.
33. F. Spahn, J. Schmidt, N. Albers, M. Hörning, M. Makuch, M. SeiB, S. Kempf, R. Srama, V. Dikarev, S. Helfert, G. Moragas-Klostermeyer, **A.V. Krivov**, M. Sremčević, A.J. Tuzzolino, Th. Economou, and E. Grün (2006). Cassini Dust Measurements at Enceladus and Implications

for the Origin of the E Ring. *Science* **311**, 1416–1418.

2005

34. M. Sremčević, **A.V. Krivov**, and F. Spahn (2005). Impact-Generated Dust Clouds around Planetary Satellites: Model versus Galileo Data. *Planetary and Space Science* **53**, 625-641.
35. **A.V. Krivov**, M. Sremčević, and F. Spahn (2005). Evolution of a Keplerian Disk of Colliding and Fragmenting Particles: A Kinetic Model with Application to the Edgeworth-Kuiper Belt. *Icarus* **174**, 105–134.
36. M. Makuch, **A.V. Krivov**, and F. Spahn (2005). Long-Term Dynamical Evolution of Dusty Ejecta from Deimos. *Planetary and Space Science* **53**, 357-369.

2004

37. R. Srama, T.J. Ahrens, N. Altobelli, S. Auer, J.G. Bradley, M. Burton, V.V. Dikarev, T. Economou, H. Fechtig, M. Görlich, M. Grande, A. Graps, E. Grün, O. Havnes, S. Helfert, M. Horányi, E. Igenbergs, E.K. Jessberger, T. V. Johnson, S. Kempf, **A.V. Krivov**, H. Krüger, A. Mocker-Ahlreep, G. Moragas-Klostermeyer, P. Lamy, M. Landgraf, D. Linkert, G. Linkert, F. Lura, J.A.M. McDonnell, D. Möhlmann, G.E. Morfill, M. Müller, M. Roy, G. Schäfer, G. Schlotzhauer, G.H. Schwehm, F. Spahn, M. Stübig, J. Svestka, V. Tschernjawski, A.J. Tuzolino, R. Wäsch, and H.A. Zook (2004). The Cassini Cosmic Dust Analyzer. *Space Science Reviews* **114**, Issue 1-4, 465-518.
38. **A.V. Krivov**, N.A. Krivova, S.K. Solanki, and V.B. Titov (2004). Towards Understanding the β Pictoris Dust Stream. *Astronomy and Astrophysics* **417**, 341–352.

2003

39. J.E. Howard, **A.V. Krivov**, and F. Spahn (2003). Transverse Halo Orbits about Mars? *Geophysical Research Letters* **30**, 1680, 10.1029/2003GL017677.
40. H. Krüger, **A.V. Krivov**, M. Sremčević, and E. Grün (2003). Impact-Generated Dust Clouds Surrounding the Galilean Moons. *Icarus* **164**, 170–187.
41. M. Sremčević, **A.V. Krivov**, and F. Spahn (2003). Impact-Generated Dust Clouds around Planetary Satellites: Asymmetry Effects. *Planetary and Space Science* **51**, 455-471.
42. F. Spahn, **A.V. Krivov**, M. Sremčević, U. Schwarz, and J. Kurths (2003). Stochastic Forces in Circumplanetary Dust Dynamics. *Journal of Geophysical Research* **108** (E4), 10.1029/2002JE001925.
43. **A.V. Krivov**, M. Sremčević, F. Spahn, V.V. Dikarev, and K.V. Kholshchevnikov (2003). Impact-Generated Dust Clouds around Planetary Satellites: Spherically-Symmetric Case. *Planetary and Space Science* **51**, 251–269.

2002

44. **A.V. Krivov**, I. Wardinski, F. Spahn, H. Krüger, and E. Grün (2002). Dust on the Outskirts of the Jovian System. *Icarus* **157**, 436–455.
45. **A.V. Krivov**, H. Krüger, E. Grün, K.-U. Thiessenhusen, and D.P. Hamilton (2002). A Tenuous Dust Ring of Jupiter Formed by Escaping Ejecta from the Galilean Satellites. *Journal of Geophysical Research* **107** (E1), 10.1029/2000JE001434.

46. K.-U. Thiessenhusen, **A.V. Krivov**, H. Krüger, and E. Grün (2002). A Dust Cloud around Pluto and Charon, *Planetary and Space Science* **50**, 79–87.

2001

47. **A.V. Krivov** and M. Banaszekiewicz (2001). Unusual Origin, Evolution and Fate of Icy Ejecta from Hyperion. *Planetary and Space Science* **49**, 1265–1279.

2000

48. **A.V. Krivov**, I. Mann, and N.A. Krivova (2000). Size Distributions of Dust in Circumstellar Debris Discs. *Astronomy and Astrophysics* **362**, 1127–1137.
49. H. Krüger, **A.V. Krivov**, and E. Grün (2000). A Dust Cloud around Ganymede Maintained by Hypervelocity Impacts of Interplanetary Micrometeoroids. *Planetary and Space Science* **48**, 1457–1471.
50. N.A. Krivova, **A.V. Krivov**, and I. Mann (2000). The Disk of β Pictoris in the Light of Polarimetric Data. *Astrophysical Journal* **539**, 424–434.
51. I. Mann, **A.V. Krivov**, and H. Kimura (2000). Dust Cloud near the Sun. *Icarus* **146**, 568–582.

1999

52. H. Krüger, **A.V. Krivov**, D.P. Hamilton, and E. Grün (1999). Detection of an Impact-Generated Dust Cloud around Ganymede. *Nature* **399**, 558–560.
53. **A.V. Krivov** and A. Jurewicz (1999). The Ethereal Dust Envelopes of the Martian Moons. *Planetary and Space Science* **47**, 45–56.

1998

54. **A.V. Krivov**, H. Kimura, and I. Mann (1998). Dynamics of Dust near the Sun. *Icarus* **134**, 311–327.
55. **A.V. Krivov**, I. Mann, and H. Kimura (1998). The Circumsolar Dust Complex and Solar Magnetic Field. *Earth, Planets and Space* **50**, No. 6–7, 551–554.
56. V.V. Dikarev and **A.V. Krivov** (1998). Dynamics and Spatial Distribution of Saturn's E Ring Particles. *Astronomicheskij Vestnik* **32**, No. 2, 147–163 (in Russian). English translation: *Solar System Research*, **32**, No.2, 128–143.

1997

57. M. Banaszekiewicz and **A.V. Krivov** (1997). Hyperion as a Dust Source in the Saturnian System. *Icarus* **129**, 289–303.
58. **A.V. Krivov** and D.P. Hamilton (1997). Martian Dust Belts: Waiting for Discovery. *Icarus* **128**, 335–353.
59. D.P. Hamilton and **A.V. Krivov** (1997). Dynamics of Distant Moons of Asteroids. *Icarus* **128**, 241–249.
60. M. Banaszekiewicz and **A.V. Krivov** (1997). Hyperion as a Dust Source in the Saturnian System. In: *Dynamics and Astrometry of Natural and Artificial Celestial Bodies* (Eds. I. Wytrzyszczak, J.H. Lieske, and R.A. Feldman), Kluwer, Dordrecht, pp. 171-176.

61. **A.V. Krivov**, L.L. Sokolov, and J. Getino (1997). Orbital Instability Zones of Balloon Satellites. *Ibid.*, pp. 361-366.

62. **A.V. Krivov** and J. Getino (1997). Orbital Evolution of High-Altitude Balloon Satellites. *Astronomy and Astrophysics* **318**, 308–314.

1996

63. D.P. Hamilton and **A.V. Krivov** (1996). Circumplanetary Dust Dynamics: Effects of Solar Gravity, Radiation Pressure, Planetary Oblateness, and Electromagnetism. *Icarus* **123**, 503–523.

64. **A.V. Krivov**, L.L. Sokolov, and V.V. Dikarev (1996). Dynamics of Mars-Orbiting Dust: Effects of Light Pressure and Planetary Oblateness. *Celest. Mech. Dynam. Astron.* **63**, 313–339.

65. **A.V. Krivov**, L.L. Sokolov, and V.V. Dikarev (1996). Dynamics of Mars-Orbiting Dust. In *Proc. III Int. Workshop on Positional Astronomy and Celestial Mechanics* (Eds. A. Lopez Garcia et al.), Astronomical Observatory, University of Valencia, pp. 225–234.

66. **A.V. Krivov** and N.A. Krivova (1996). Expected Features of Martian Dust Belts. *Ibid.*, pp. 235-244.

1994

67. **A.V. Krivov** (1994). Aberration of Light: Relativistic Theory and Its Application to Microarc-second Astrometry in Space. In: *Dynamics and Astrometry of Natural and Artificial Celestial Bodies* (Eds. K. Kurzyńska, F. Barlier, P.K. Seidelmann, and I. Wytrzyszczak), Astron. Observ. of A. Mickiewicz Univ., Poznań, pp. 217–222.

68. **A.V. Krivov** and V.B. Titov, 1994. The Dust Torus of Phobos. *Ibid.*, pp. 281–286.

69. **A.V. Krivov** (1994). Indirect Influence of the External Bodies on the Motion of Artificial Earth Satellites. *Ibid.*, pp. 353–358.

70. **A.V. Krivov** (1994). Aberration of Light: Relativistic Theory and Its Applications to Cosmic Microarcsecond Astrometry. *Astronomicheskij Zhurnal* **71**, 5, 777–784. English translation: *Astronomy Reports* **38**, 5, 691–698.

71. **A.V. Krivov** (1994). On the Dust Belts of Mars. *Astronomy and Astrophysics* **291**, 657–663.

1993

72. K.V. Kholoshevnikov, **A.V. Krivov**, L.L. Sokolov, and V.B. Titov (1993). The Dust Torus around Phobos Orbit. *Icarus* **105**, 351–362.

73. **A.V. Krivov** (1993). Perturbations of an Earth Satellite from Inertial Forces Produced by the Influence of External Bodies on the Motion of the Geocenter. *Astronomicheskij Zhurnal* **70**, 1, 209–215 (in Russian). English translation: *Astronomy Reports* **37**, 1, 109–112.

1991

74. **A.V. Krivov**, L.L. Sokolov, K.V. Kholoshevnikov, and V. A. Shor (1991). On the Existence of the Swarm of Particles around the Phobos Orbit. *Astron. Vestnik* **25**, 3, 317–326 (in Russian). English translation: *Sol. Syst. Res.* **25**, 3, 233–242.

75. N.V. Emel'yanov and **A.V. Krivov** (1991). Influence of Relativistic Effects on the Results of Satellite Geodynamics, Geodesy, and Navigation. Investigation Methods. *Astronomicheskij Zhurnal* **68**, 4, 872–879 (in Russian). English translation: *Soviet Astronomy* **35**, 4, 432–436.
76. N.V. Emel'yanov and **A.V. Krivov** (1991). Influence of Relativistic Effects on the Results of Satellite Geodynamics, Geodesy, and Navigation. Research Results. *Astronomicheskij Zhurnal* **68**, 5, 1093–1098 (in Russian). English translation: *Soviet Astronomy* **35**, 5, 547–550.

1990

77. **A.V. Krivov** and N.A. Chernysheva (1990). Integration of Equations of Motion of a Low-Orbiting Artificial Earth Satellite by Taylor's Method. *Kinem. and Phys. of Celest. Bodies* **6**, 2, 13–16 (in Russian).

1988

78. **A.V. Krivov** (1988). Relativistic Effects in the Motion and Observations of Artificial Earth Satellites. I. Relativistic Perturbations in the Satellite Motion. *Vestnik Leningradskogo Universiteta, Seriya matematika, mekhanika, astronomia*, 1, 84–91 (in Russian).
79. **A.V. Krivov** (1988). Relativistic Effects in the Motion and Observations of Artificial Earth Satellites. II. Calculation of Measurable Quantities. *Vestnik Leningradskogo Universiteta, Seriya matematika, mekhanika, astronomia*, 3, 83–91 (in Russian).
80. **A.V. Krivov** (1988). Relativistic Effects in Motion and Observations of Artificial Earth Satellites. III. Geocentric Approach and Estimations of Relativistic Effects. *Vestnik Leningradskogo Universiteta, Seriya matematika, mekhanika, astronomia*, 4, 78–86 (in Russian).

1987

81. **A.V. Krivov** (1987). Coordinate Invariance of Schwarzschild's Advance of Pericenter. *Vestnik Leningradskogo Universiteta, Seriya matematika, mekhanika, astronomia*, 1, 102–108 (in Russian).

1986

82. **A.V. Krivov** (1986). Hamiltonian Equations of the Planetary N-body Problem in the Post-Newtonian Approximation. *Astronomicheskij Zhurnal* **63**, 2, 371–380 (in Russian). English translation: *Soviet Astronomy* **30**, 2, 224–228.

1985

83. **A.V. Krivov** (1985). On the Universal Keplerian Algorithms. *Vestnik Leningradskogo Universiteta, Seriya matematika, mekhanika, astronomia*, 4, 73–81 (in Russian).

D. Non-refereed publications (selected)

1. M. Reidemeister, **A.V. Krivov**, C.C. Stark, J.-C. Augereau, T. Löhne, and S. Müller (2011). Warm Dust around ϵ Eridani. In *The Astrophysics of Planetary Systems: Formation, Structure, and Dynamical Evolution*, Proceedings of the IAU, IAU Symposium, Volume 276, p. 455–456.

2. P.J.V. Garcia, J.-P. Berger, ... **A.V. Krivov**, ... (2008). Science Case for 1 mas Spectro-Imaging in the Near Infrared, In *Optical and Infrared Interferometry* (Schöller, M., Danchi, W. C., Delplancke, F., Eds.), Proceedings of the SPIE, Vol. 7013, pp. 70134N-70134N-14.
3. E. Grün, P.G. Brown, A.L. Graps, J.M. Hahn, D.P. Hamilton, W.M. Harris, M. Hornyi, D.L. Huestis, **A.V. Krivov**, M.J. Kuchner, A.C. Levasseur-Regourd, D.J. Lien, J.-C. Liou, C.M. Lisse, D.D. Meisel, W.T. Reach, M.L. Sitko, T.P. Snow, R. Srama, J.A. Stansberry, M.V. Sykes, H. Yano, and M.E. Zolensky (2002). Dust Astronomy: New Venues in Interplanetary and Interstellar Dust Research. In *The Future of Solar System Exploration, 2003–2013* (Ed. M. V. Sykes), ASP Conf. Series **272**, pp. 283–296.
4. M.K. Gordon, S. Araki, G.J. Black, A.S. Bosh, A. Brahic, S.M. Brooks, S. Charnoz, J.E. Colwell, J.N. Cuzzi, L. Dones, R.H. Durisen, L.W. Esposito, C. Ferrari, M. Festou, R.G. French, S.M. Giuliatti-Winter, A.L. Graps, D.P. Hamilton, M. Horányi, R.M. Karjalainen, **A.V. Krivov**, H. Krüger, S.M. Larson, H.F. Levison, M.C. Lewis, J.J. Lissauer, C.D. Murray, F. Namouni, P.D. Nicholson, C.B. Olkin, F. Poulet, N.J. Rappaport, H.J. Salo, J. Schmidt, M.R. Showalter, F. Spahn, L.J. Spilker, R. Srama, G.R. Stewart, and P. Yanamandra-Fisher (2002). Planetary rings. *Ibid.*, pp. 263-282.
5. N.A. Krivova, **A.V. Krivov**, and I. Mann (2000). Size Distribution of Dust in the Disk of β Pictoris. In *Disks, Planetesimals, and Planets* (Eds. F. Garzón, C. Eiroa, D. de Winter, and T.J. Mahoney), ASP Conf. Series **219**, pp. 387–392.
6. N.A. Krivova, I. Mann, and **A.V. Krivov** (1999). Polarization of the Zodiacal Cloud and Other Solar System-type Debris Disks. In *Meteoroids 1998* (Eds.: W.J. Baggaley and V. Porubcan), Astron. Inst., Slovak Acad. Sci., Bratislava, pp. 291-294.
7. P. Bretagnon, V.A. Brumberg, N. Capitaine, T. Damour, T.M. Eubanks, T. Fukushima, B. Guinot, S.A. Klioner, S.M. Kopeikin, **A.V. Krivov**, P.K. Seidelmann, and M.H. Soffel (1997). General Relativity and the IAU resolutions. Report of the IAU WGAS Sub Working Group on Relativity in Celestial Mechanics and Astrometry. *Preprint, Inst. of Appl. Astron.*, No. 111, 15 pp., St. Petersburg (in Russian). [Presented at the XXIII General Assembly of the IAU, Kyoto, 18-30 August 1997.]
8. **A.V. Krivov** (1995). Teaching General Astronomy at St. Petersburg University. *Teaching of Astronomy in Asian-Pacific Region*, No. 10, 28–35.
9. V.B. Il'in and **A.V. Krivov** (1994). Dynamics of Small Dust Grains near Herbig Ae Stars. In: *The Nature and Evolutionary Status of Herbig Ae Stars* (Eds. P.S. Thé, M.R. Pérez, and E.P.J. van den Heuvel), ASP Conf. Series **62**, pp. 177–180.
10. **A.V. Krivov**, L.L. Sokolov, and V.B. Titov (1992). Stochastic Trajectories of Space Vehicles with Gravitational Manoeuvres. In: *Integrability, Chaos and Predictability in Celestial Mechanics and Stellar Dynamics* (Ed. K.B. Bhatnagar). Nova Science Publishers, pp. 123–130.
11. V.V. Vityasev and **A.V. Krivov** (1989). Basic Concepts and Methodology of Astrometry. In: *Problems of Construction of Reference Systems in Astronomy*, Leningrad, 70-79 (in Russian).
12. **A.V. Krivov**, 1987. Barycentric and Geocentric Approaches to Allow for the Relativistic Effects in Satellite Problems. *VINITI Rept.*, No. 8793-B87 16-12-1987, 21 pp. Moscow (in Russian).

13. S.V. Tarasevich, **A.V. Krivov**, and V.B. Titov (1987). The System for Symbolic Manipulations GRATOS. I. Concepts and Potentialities. *Algorithms of Celestial Mechanics*, No. 53, 45 pp. Leningrad, Inst. of Theor. Astron. (in Russian).
14. S.V. Tarasevich, **A.V. Krivov**, and V.B. Titov (1987). The System for Symbolic Manipulations GRATOS. II. BESM-6 and ES computer implementations. *Algorithms of Celestial Mechanics*, No. 54, 36 pp. Leningrad, Inst. of Theor. Astron. (in Russian).
15. R.K. Kazakova and **A.V. Krivov** (1984). Determination of Observational Conditions of Celestial Bodies in DISPO System. *Preprint, Inst. of Appl. Math.*, No. 73, 39 pp. Moscow (in Russian).

E. Abstracts (selected)

1. Müller, S., **Krivov, A. V.**, Löhne, T., and Mutschke, H. (2008), What Children Tell Us about Their Parents: From Visible Dust to Invisible Planetesimals in Debris Disks. *Bull. Amer. Astron. Soc.*, **40**, p. 392.
2. Makuch, M., Brilliantov, N. V., Sremcevic, M., Spahn, F., and **Krivov, A. V.** (2006), Stochastic Circumplanetary Dynamics of Rotating Non-Spherical Dust Particles. *Bull. Amer. Astron. Soc.*, **38**, p. 1299.
3. **Krivov, A. V.**, Queck, M., Löhne, T. and Sremcevic, M. (2006). How Planets Can Create Clumps in Debris Disks. *Bull. Amer. Astron. Soc.*, **38**, p. 487.
4. **Krivov, A. V.** (2005). Physics of debris disks. Workshop on “Dust in Planetary Systems”, September 26–30, 2005, Kaua’i Island, Hawai’i. LPI contribution No. 1280, pp. 98–99. LPI, Houston.
5. Kempf, S.; Srama, R.; Moragas-Klostermeyer, G.; Burton, M.; Roy, M.; Johnson, T.; Spahn, F.; **Krivov, A.**; Sremcevic, M.; Grün, E (2004). Exploring the dust cloud around Phoebe. 35th COSPAR Scientific Assembly. Held 18 - 25 July 2004, in Paris, France, p. 3768.
6. **Krivov, A. V.**; Sremcevic, M.; Spahn, F. (2004). Collisional evolution of the Edgeworth-Kuiper belt. 35th COSPAR Scientific Assembly. Held 18 - 25 July 2004, in Paris, France, p. 2795.
7. **Krivov, A. V.**; Krüger, H.; Horanyi, M.; Spahn, F. (2002). SL9 Dust in the Jovian System? *Bull. Amer. Astron. Soc.*, **34**, p. 884.
8. **Krivov, A. V.**; Wardinski, I.; Spahn, F.; Krüger, H.; Grün, E. (2001). Dust from the Outer Jovian Satellites. *Bull. Amer. Astron. Soc.*, **33**, p. 1132.
9. Spahn, F.; **Krivov, A. V.**; Sremčević, M.; Schwarz, U.; Kurths, J. (2001) On stochastic forces in circumplanetary dust dynamics. *Bull. Amer. Astron. Soc.*, **33**, p. 1132.
10. Grün, E.; Hahn, J.; Hamilton, D.; Harris, W.; Horanyi, M.; Huestis, D. L.; **Krivov, A.**; Lévassieur-Regourd, A. C.; Liou, J. C.; Lisse, C.; Kuchner, M.; Meisel, D.; Reach, W. T.; Snow, T. P.; Stansberry, J.; Sykes, M.; Yano, H.; Zolensky, M. (2001). Dust Astronomy: New venues in interplanetary and interstellar dust research. *Bull. Amer. Astron. Soc.*, **33**, p. 1057.

11. Gordon, M. K.; Cuzzi, J. N.; Lissauer, J. J.; Poulet, F.; Brahic, A.; Charnoz, S.; Ferrari, C.; Burns, J. A.; Nicholson, P. D.; Durisen, R. H.; Rappaport, N. J.; Spilker, L. J.; Yanamandra-Fisher, P.; Bosh, A. S.; Olkin, C.; Larson, S. M.; Graps, A. L.; Krüger, H.; Black, G. J.; Festou, M.; Karjalainen, R.; Salo, H. J.; Murray, C. D.; Showalter, M. R.; Dones, L.; Levison, H. F.; Namouni, F.; Araki, S.; Lewis, M. C.; Brooks, S.; Colwell, J. E.; Esposito, L. W.; Horanyi, M.; Stewart, G. R.; **Krivov, A.**; Schmidt, J.; Spahn, F.; Hamilton, D. P.; Giuliatti-Winter, S.; French, R. G. Decadal Survey: Planetary Rings Panel. *Bull. Amer. Astron. Soc.*, **33**, p. 1057.
12. Wardinski, I.; **Krivov, A. V.**; Spahn, F. (2000) Dust on the Outskirts of the Jovian System: What Might Galileo and Cassini See? *Bull. Amer. Astron. Soc.*, **32**, p. 1644.
13. **Krivov, A. V.**; Krüger, H.; Grün, E.; Thiessenhusen, K.-U.; Hamilton, D. P. (2000). A Tenuous Dust Ring of Jupiter Formed by Escaping Ejecta from the Galilean Satellites. *Astronomische Gesellschaft Abstract Series 17*. Abstracts of Contributed Talks and Posters presented at the Annual Scientific Meeting of the Astronomische Gesellschaft in Bremen, September 18-23, 2000.
14. Krüger, H.; **Krivov, A. V.**; Hamilton, D. P.; Grün, E. (1999). Dust Clouds surrounding the Galilean Satellites. American Astronomical Society, DPS meeting No. 31, Paper 70.09.
15. Thiessenhusen, K. U.; Spahn, F.; Schmidt, J.; **Krivov, A.** (1999). Influence of the Initial Motion of Ejecta and of Plasma Drag on the Shape of Saturn's E Ring. American Astronomical Society, DPS meeting No. 31, Paper 44.09.
16. Brumberg, V. A.; Bretagnon, P.; Capitaine, N.; Damour, T.; Eubanks, T. M.; Fukushima, T.; Guinot, B.; Klioner, S. A.; Kopeikin, S. M.; **Krivov, A. V.**; Seidelmann, P. K.; Soffel, M. H. (1998). General Relativity and the IAU Resolutions. *Highlights of Astronomy Vol. 11A*, as presented at Joint Discussion 14 of the XXIIIrd General Assembly of the IAU, 1997. Edited by Johannes Andersen. Kluwer Academic Publishers, p. 194.
17. **Krivov, A. V.**; Kimura, H.; Mann, I. (1997). On the Possible Influence of the Solar Magnetic Field on the Circumsolar Dust Complex. *Physics of the Sun and Heliosphere in the Era of Space Probes: Scientific Highlights of SOHO, Ulysses, and Yohkoh*, 23rd meeting of the IAU, Joint Discussion 19, 26-27 August 1997, Kyoto, Japan, meeting abstract.
18. **Krivov, A. V.**; Banaszkiwicz, M. (1997). Dust Influx to Titan: The Hyperion Source. *Interactions between Planets and Small Bodies*, 23rd meeting of the IAU, Joint Discussion 6, 22-23 August 1997, Kyoto, Japan, meeting abstract.
19. **Krivov, A. V.**; Titov, V. B. (1995). On the Dust Torus around the Orbit of Phobos. *J. Astrophys. Astron.* **16** (suppl.), p. 394.