

# Strukturovaná bibliografie — doc. Mgr. Miroslav Brož, Ph. D.

Uvádíme kapitoly v monografiích, recenzované články, příspěvky ve sbornících, učebnice, abstrakta a popularizační články, společně s citacemi registrovanými v literatuře.

## B. Kapitoly v monografiích

- 1 W.F. Bottke, D. Vokrouhlický, D.P. Rubincam and **M. Brož**, Dynamical evolution of asteroids and meteoroids using the Yarkovsky effect, in: *Asteroids III*, Eds. W.F. Bottke, A. Cellino. P. Paolicchi and R. Binzel, (Arizona Univ. Press, Tucson 2003), p. 395–408.
  - 1 A. Dell’Oro *et al.*, Evidences of ageing of orbital elements (a,e) from the observed structure of asteroid families, *Asteroids, Comets and Meteors*, abstract 05-11, p. 53 (2002).
  - 2 A. Morbidelli *et al.*, Origin and evolution of near-Earth objects, in: *Asteroids III*, Eds. W.F. Bottke, A. Cellino. P. Paolicchi and R. Binzel, (Arizona Univ. Press, 2003), p. 409.
  - 3 V. Zappalá *et al.*, Physical and dynamical properties of asteroid families, in: *Asteroids III*, Eds. W.F. Bottke, A. Cellino. P. Paolicchi and R. Binzel, (Arizona Univ. Press, 2003), p. 619.
  - 4 D. Nesvorný *et al.*, Regular and chaotic dynamics in the mean-motion resonances, in: *Asteroids III*, Eds. W.F. Bottke, A. Cellino. P. Paolicchi and R. Binzel, (Arizona Univ. Press, 2003), p. 379.
  - 5 R.P. Binzel *et al.*, Physical properties of Near-Earth Asteroids, in: *Asteroids III*, Eds. W.F. Bottke, A. Cellino. P. Paolicchi and R. Binzel, (Arizona Univ. Press, 2003), p. 255.
  - 6 P. Pravec, A.W. Harris and T. Michalowski, Asteroid rotation, in: *Asteroids III*, Eds. W.F. Bottke, A. Cellino. P. Paolicchi and R. Binzel, (Arizona Univ. Press, 2003), p. 113.
  - 7 E. Asphaug, E. Ryan and M. Zuber, Asteroid Interiors, in: *Asteroids III*, Eds. W.F. Bottke, A. Cellino. P. Paolicchi and R. Binzel, (Arizona Univ. Press, 2003), p. 463.
  - 8 D. Scheeres, D.D. Durda and P.E. Geissler, The fate of asteroid ejecta, in: *Asteroids III*, Eds. W.F. Bottke, A. Cellino. P. Paolicchi and R. Binzel, (Arizona Univ. Press, 2003), p. 527.
  - 9 A.W. Harris and J.S.V. Lagerros, Asteroids in the thermal infrared, in: *Asteroids III*, Eds. W.F. Bottke, A. Cellino. P. Paolicchi and R. Binzel, (Arizona Univ. Press, 2003), p. 205.
  - 10 T. Burbine *et al.*, Meteoritic parent bodies: Their number and identification, in: *Asteroids III*, Eds. W.F. Bottke, A. Cellino. P. Paolicchi and R. Binzel, (Arizona Univ. Press, 2003), p. 669.
  - 11 R.P. Binzel, Spin control for asteroids, *Nature* **425**, 131, 2003.
  - 12 U. Penco, A. Dell’Oro, P. Paolicchi *et al.*, Numerical modelling of main belt collisional evolution: depletion effects, in: it Proceedings of the ACM04 Conference, ESA SP-500, p. 363, 2003.
  - 13 R.D. Lorentz and J.N. Spitale, The Yarkovsky effect as a heat engine, *Icarus* **170**, 229, 2004.
  - 14 U. Penco, A. Dell’Oro, P. Paolicchi *et al.*, Yarkovsky depletion and asteroid collisional evolution, *Planet. Sp. Science* **52**, 1087, 2004.
  - 15 R. Michelsen, Near-Earth Asteroids from discovery to characterization, PhD Thesis, N. Bohr Institute for Astronomy, Physics and Geophysics, University of Copenhagen, 2004.
  - 16 A.F. Cheng, Collisional evolution of the asteroid belt, *Icarus* **169**, 357.
  - 17 A. Dell’Oro, G. Bigongiari, P. Paolicchi and A. Cellino, Asteroid families: evidence of ageing of the proper elements, *Icarus* **169**, 341, 2004.
  - 18 D.J. Sheeres, F. Marzari and A. Rossi, Evolution of NEO rotation rates due to close encounters with Earth and Venus, *Icarus* **170**, 312, 2004.
  - 19 A. Cellino, A. Dell’Oro and V. Zappalá, Asteroid families: open problems, *Planet. Sp. Sci.* **52**, 1075, 2004.
  - 20 M. Delbó, *The nature of near-earth asteroids from the study of their thermal infrared emission*, PhD Dissertation, Freie Universität Berlin, 2004.
  - 21 P.R. Heck, B. Schmitz, H. Baur, *et al.*, Fast delivery of meteorites to Earth after a major asteroid collision, *Nature* **430**, 323, 2004.
  - 22 C.R. Chapman, The hazard of near-Earth asteroid impacts on Earth, *Earth. Planet. Sci. Lett.* **222**, 1, 2004.
  - 23 M.V. Sykes, E. Grün, W.T. Reach and P. Jenniskens, Interplanetary dust complex and comets, in *Comets II*, eds. M.C. Festou, H.U. Keller and H.A. Weaver (Tucson, University of Arizona Press), 677, 2004.
  - 24 T. Monthé-Diniz, F. Roig and J.M. Carvano, Reanalysis of asteroid families structure through visible spectroscopy, *Icarus* **174**, 54, 2005.
  - 25 M. Čuk and J.A. Burns, Effects of thermal radiation on the dynamics of binary NEAs, *Icarus* **176**, 418, 2005.
  - 26 E.F. Tedesco, A. Cellino and V. Zappalá, The statistical asteroid model I. The main-belt population for diameters greater than 1 km, *Astron. J.* **129**, 2869, 2005.
  - 27 H. Scholl, F. Marzari and P. Tricarico, Dynamics of Mars Trojans, *Icarus* **175**, 397, 2005.
  - 28 H. Michałska, *Dynamika podwójnych planetoid pod wpływem efektu Jarkowskiego*, Master Thesis, A. Mickiewicz University, 2005.
  - 29 D.C. Richardson, P. Elankumaran and R.E. Sanderson, Numerical experiments with rubble piles: equilibrium shapes and spins, *Icarus* **173**, 349, 2005.
  - 30 T. Monthé-Diniz and J.M. Carvano, 221 Eos: A remnant of a partially differentiated parent body? *Astron. Astrophys.*, submitted.
  - 31 H. Fu, R. Jedicke, D. Durda, R. Fevig and J.V. Scotti, Identifying near-Earth objects families, *Icarus* **178**, 434, 2005.
  - 32 G. Beekman, I.O. Yarkovsky and the discovery of his effect, *J. Hist. Astron.* **37**, 71, 2006.

- 33 P. Pravec, Photometric survey of asynchronous binary asteroids, in: *Symposium on Telescope Science*, Eds. B.D. Warner *et al.*, Society for Astronomical Science, p. 61, 2005.
- 34 P. Pravec *et al.*, Photometric survey of binary near-Earth asteroids, *Icarus* **181**, 63, 2006.
- 35 J. Virtanen, Asteroid orbital inversion using statistical methods, PhD Thesis, University of Helsinki, 2005 (<http://e-thesis.helsinki.fi/julkaisut/mat/tahti/vk/virtanen/asteroid.pdf>).
- 36 P. Michel and M. Yoshikawa, Earth impact probability of the asteroid (25143) Itokawa to be sampled by the spacecraft Hayabusha, *Icarus* **179**, 291, 2005.
- 37 V. Carruba, T.A. Michtchenko, F. Roig, S. Ferraz-Mello and D. Nesvorný, On the V-type asteroids outside the Vesta family. I. Interplay ..., *Astron. Astrophys.* **441**, 819, 2005.
- 38 P. Tanga, Impact of Gaia on dynamics and evolution of the Solar System, in *The Three-Dimensional Universe with Gaia*, C. Turon, K.S. O'Flaherty, M.A.C. Perryman (Eds.), p. 243, 2005.
- 39 A.W. Harris, M. Mueller, M. Delbó and S.J. Bus, The surface properties of small asteroids: Peculiar Betulia, a case study, *Icarus* **179**, 95, 2005.
- 40 H.H. Hsieh and D. Jewitt, Active asteroids: Mystery in the Main Belt, in: *Asteroids, Comets and Meteors*, Eds. J.A. Fernandez and S. Ferraz-Mello, Cambridge University Press, p. 425, 2006.
- 41 F. Roig and R. Gil-Hutton, Selecting candidate V type asteroids from the analysis of the Sloan Digital Sky Survey colors, *Icarus* **183**, 411, 2006.
- 42 D.C. Richardson and K.J. Walsh, Binary minor planets, *Ann. Rev. Earth Planet. Sci.* **34**, 47, 2006.
- 43 R. Gil-Hutton, Identification of families among highly inclined asteroids, *Icarus* **183**, 1, 2006.
- 44 L.A.M. Benner, M.C. Nolan, S.J. Ostro, J.D. Giorgini, D.P. Pray, A.W. Harris, C. Magri and J.L. Margot, Near-Earth Asteroid 2005 CR37: Radar images and photometry of a candidate contact binary, *Icarus*, **182**, 474, 2006.
- 45 P. Michel and M. Yoshikawa, Dynamical origin of the asteroid (25143) Itokawa: the target of the sample return Hayabusa space mission, *Astron. Astrophys.* **449**, 817, 2006.
- 46 K. Whitman, A. Morbidelli and R. Jedicke, The size-frequency distribution of dormant Jupiter family comets, *Icarus* **183**, 101, 2006.
- 47 D.J. Scheeres, *et al.*, Dynamical configuration of binary near-Earth asteroid (66391) 1999 KW4, *Science* **314**, 1280, 2006.
- 48 D.J. Scheeres, The dynamical evolution of uniformly rotating asteroids subject to YORP, *Icarus* **188**, 430, 2007.
- 49 M. Delbó, A. dell'Oro, A.W. Harris, S. Mottola and M. Mueller, Thermal inertia of near-Earth asteroids and implications for the magnitude of the Yarkovsky effect, *Icarus* **190**, 236, 2007.
- 50 D.J. Scheeres, The dynamics of NEO binary asteroids, in: *Near Earth Objects, our Celestial Neighbors: Opportunity and Risk*, A. Milani, G.B. Valsecchi and D. Vokrouhlický, Eds., Cambridge Univ. Press, p. 177, 2007.
- 51 P. Pravec, A.W. Harris and B.D. Warner, NEA rotations and binaries, in: *Near Earth Objects, our Celestial Neighbors: Opportunity and Risk*, A. Milani, G.B. Valsecchi and D. Vokrouhlický, Eds., Cambridge Univ. Press, p. 167, 2007.
- 52 Yu.N. Krugly, *et al.*, Kharkiv study of near-Earth asteroids, in: *Near Earth Objects, our Celestial Neighbors: Opportunity and Risk*, A. Milani, G.B. Valsecchi and D. Vokrouhlický, Eds., Cambridge Univ. Press, p. 385, 2007.
- 53 A. Cellino, M. Delbó and E.F. Tedesco, Albedo and size of (99942) Apophis from polarimetric observations, in: *Near Earth Objects, our Celestial Neighbors: Opportunity and Risk*, A. Milani, G.B. Valsecchi and D. Vokrouhlický, Eds., Cambridge Univ. Press, p. 451, 2007.
- 54 A.W. Harris, M. Mueller, M. Delbó and S.J. Bus, Physical characterization of the potentially-hazardous high-albedo asteroid (33342) 1998 WT24 from thermal-infrared observations, *Icarus* **188**, 414, 2007.
- 55 P. Tanga, M. Delbó, D. Hestroffer, A. Cellino and F. Mignard, Gaia observations of Solar System objects: Impact of dynamics and ground-based observations, *Adv. Sp. Res.* **40**, 209, 2007.
- 56 R.A. Fevig and U. Fink, Spectral observations of 19 weathered and 23 fresh NEAs and their correlation with orbital parameters, *Icarus* **188**, 175, 2007.
- 57 D.J. Scheeres, Rotational fission of contact binary asteroids, *Icarus* **189**, 370, 2007.
- 58 M. Kaasalainen, J. Ďurech, B.D. Warner, Y.N. Krugly and N.M. Gaftonyuk, Acceleration of the rotation rate of asteroid 1862 Apollo by radiation torques, *Nature* **446**, 420, 2007.
- 59 M. Čuk, Formation and destruction of small binary asteroids, *Astrophys. J.* **659**, L57, 2007.
- 60 A. Dell'Oro and A. Cellino, The random walk of Main Belt asteroids: orbital mobility by non-destructive collisions, *Mon. Not. R. Astron. Soc.* **380**, 399, 2007.
- 61 T. Ito and K. Tanikawa, Trends in 20th century celestial mechanics, *Publ. Nat. Astron. Obs. Japan* **9**, 55, 2007.
- 62 M. Granvik, Asteroid identification using statistical orbital inversion methods, PhD Thesis, University of Helsinki, 2007. (<http://oa.doria.fi/bitstream/handle/10024/29131/asteroid.pdf?sequence=1>).
- 63 E.G. Fahnestock and D.J. Scheeres, Simulation and analysis of the dynamics of binary near-Earth Asteroid (66391) 1999 KW4, *Icarus* **194**, 410, 2008.
- 64 M. Delbó, P. Tanga and F. Mignard, On the detection of the Yarkovsky effect on near-Earth asteroids by means of Gaia, *Planet. Sp. Sci.* **56**, 1823, 2008.
- 65 T. Takeuchi, O. Krauss, Photophoretic Structuring of Circumstellar Dust Disks, *Astrophys. J.* **677**, 1309, 2008.
- 66 D. Vokrouhlický, S.R. Chesley, R.D. Matson, Orbital Identification for Asteroid 152563 (1992 Bf) Through the Yarkovsky Effect, *Astron. J.* **135**, 2336, 2008.
- 67 J.P. Emery, Physical Properties of Small Solar System Bodies and Implications for Formation and Evolution of Planetary Systems, *Astron. Soc. Pacific Conf.* **393**, 3, 2008.
- 68 D. Vokrouhlický, D. Nesvorný, The Common Roots of Asteroids (6070) Rheinland and (54827) 2001 NQ8, *Astron. J.* **137**, 111, 2009.
- 69 D. Polishook, N. Brosch, D. Prialnik, S. Kaspi, Simultaneous spectroscopic and photometric observations of binary asteroids, *Met. Planet. Sci.* **44**, 1955, 2009.
- 70 F.M. McEachern, M. Cuk, S.T. Stewart, Dynamical Evolution of the Hungaria Asteroids, *LPI Conf.* **40**, 2554, 2009.

- 71 J. Lyytinen, L. Jetsu, P. Kajatkari, S. Porceddu, Detection of real periodicity in the terrestrial impact crater record: quantity and quality requirements, *Astron. Astrophys.* **499**, 601, 2009.
- 72 V. Carruba, The (not so) peculiar case of the Padua family, *Mon. Not. R. Astron. Soc.* **395**, 358, 2009.
- 73 A. Kryszczyńska, F. Colas, P. Descamps, P. Bartczak, M. Polinska, T. Kwiatkowski, J. Lecacheux, R. Hirsch, M. Fagas, K. Kaminski, *et al.*, New binary asteroid 809 Lunda. I. Photometry and modelling, *Astron. Astrophys.* **501**, 769, 2009.
- 74 O.M. Kochetova, Yu.A. Chernetenko, V.A. Shor, How precise is the orbit of asteroid (99942) Apophis and how probable is its collision with the Earth in 2036-2037?, *Solar Sys. Res.* **43**, 324, 2009.
- 75 D. Vokrouhlický, D. Nesvorný, W.F. Bottke, A. Morbidelli, Collisionally Born Family About 87 Sylvania, *Astron. J.* **139**, 2148, 2010.
- 76 T. Nakamura, B. Dermawan, F. Yoshida, Sphericity Preference in Shapes of Sub-km-Sized Fast-Rotating Main-Belt Asteroids, *Publ. Astron. Soc. Japan* **63**, 577, 2011.
- 77 R.A. Marcus, D. Ragozzine, R.A. Murray-Clay, M.J. Holman, Identifying Collisional Families in the Kuiper Belt, *Astrophys. J.* **733**, 40, 2011.
- 78 S. Mouret, F. Mignard, Detecting the Yarkovsky effect with the Gaia mission: list of the most promising candidates, *Mon. Not. R. Astron. Soc.* **413**, 741, 2011.
- 79 D. Vokrouhlický, D. Nesvorný, Half-brothers in the Schulhof Family?, *Astron. J.* **142**, 26, 2011.
- 80 D. Vokrouhlický, J. Ďurech, D. Polishook, Y.N. Krugly, N.N. Gaftonyuk, O.A. Burkhonov, S.A. Ehgamberdiev, R. Karimov, I.E. Molotov, P. Pravec, *et al.*, Spin Vector and Shape of (6070) Rheinland and Their Implications, *Astron. J.* **142**, 159, 2011.
- 81 D.P. O'Brien, M.V. Sykes, The Origin and Evolution of the Asteroid Belt—Implications for Vesta and Ceres, *Space Sci. Rev.* **163**, 41, 2011.
- 82 A. Cellino, A. Dell'Oro, M. Bertaina, The planned JEM-EUSO mission and applications to meteor observation, *Memorie della Societa Astronomica Italiana Supplement* **20**, 35, 2012.
- 83 H.H. Hsieh, B. Yang, N. Haghighipour, Optical and Dynamical Characterization of Comet-like Main-belt Asteroid (596) Scheila, *Astrophys. J.* **744**, 9, 2012.
- 84 Z.M. Leinhardt, S.T. Stewart, Collisions between Gravity-dominated Bodies. I. Outcome Regimes and Scaling Laws, *Astrophys. J.* **745**, 79, 2012.
- 85 P.G. Benavidez, D.D. Durda, B.L. Enke, W.F. Bottke, D. Nesvorný, D.C. Richardson, E. Asphaug, W.J. Merline, A comparison between rubble-pile and monolithic targets in impact simulations: Application to asteroid satellites and family size distributions, *Icarus* **219**, 57, 2012.
- 86 M. Küppers, R. Moissl, J. Vincent, S. Besse, S.F. Hviid, B. Carry, B. Grieger, H. Sierks, H.U. Keller, S. Marchi, OSIRIS Team, Boulders on Lutetia, *Planet. Space Sci.* **66**, 71, 2012.
- 87 C.R. Nugent, J.L. Margot, S.R. Chesley, D. Vokrouhlický, Detection of Semimajor Axis Drifts in 54 Near-Earth Asteroids: New Measurements of the Yarkovsky Effect, *Astron. J.* **144**, 60, 2012.
- 88 A. Kryszczyńska, F. Colas, M. Polinska, R. Hirsch, V. Ivanova, G. Apostolovska, B. Bilkina, F.P. Velichko, T. Kwiatkowski, P. Kankiewicz, *et al.*, Do Slivan states exist in the Flora family?. I. Photometric survey of the Flora region, *Astron. Astrophys.* **546**, 72, 2012.
- 89 A. Galád, Effect of main belt perturbors on asteroid-pair age estimation, *Astron. Astrophys.* **548**, 25, 2012.
- 90 K. Tsiganis, H. Varvoglis, G. Tsirvoulis, G. Voyatzis, Constraining asteroid dynamical models using GAIA data, *Planet. Space Sci.* **73**, 47, 2012.
- 91 F. Usui, T. Kasuga, S. Hasegawa, M. Ishiguro, D. Kuroda, T.G. Müller, T. Ootsubo, H. Matsuhara, Albedo Properties of Main Belt Asteroids Based on the All-Sky Survey of the Infrared Astronomical Satellite AKARI, *Astrophys. J.* **762**, 56, 2013.
- 92 J.A. Sanchez, R. Michelsen, V. Reddy, A. Nathues, Surface composition and taxonomic classification of a group of near-Earth and Mars-crossing asteroids, *Icarus* **225**, 131, 2013.
- 93 V. Carruba, R.C. Domingos, D. Nesvorný, F. Roig, M.E. Huaman, D. Souami, A multidomain approach to asteroid families' identification, *Mon. Not. R. Astron. Soc.* **433**, 2075, 2013.
- 94 M. Sekiya, A.A. Shimoda, An iterative method for obtaining a nonlinear solution for the temperature distribution of a rotating spherical body revolving in a circular orbit around a star, *Planet. Space Sci.* **84**, 112, 2013.
- 95 A.V. Pomazan, N.V. Maigurova, Optical observations of selected asteroids with measurable Yarkovsky effect, *Adv. Astron. Sp. Phys.* **3**, 113, 2013.
- 96 M. Ansdell, K.J. Meech, O. Hainaut, M.W. Buie, H. Kaluna, J. Bauer, L. Dundon, Refined Rotational Period, Pole Solution and Shape Model for (3200) Phaethon, *arXiv* **1407**, 7886, 2014.
- 97 O. Mousis, R. Hueso, J.-P. Beaulieu, S. Bouley, B. Carry, F. Colas, A. Klotz, C. Pellier, J.-M. Petit, P. Rousselot, *et al.*, Instrumental methods for professional and amateur collaborations in planetary astronomy, *Exp. Astron.*, **35**, 2014.
- 98 A. Milani, A. Cellino, Z. Knežević, B. Novaković, F. Spoto, P. Paolicchi, Asteroid families classification: Exploiting very large datasets, *Icarus* **239**, 46, 2014.
- 2 D. Nesvorný, **M. Brož** and V. Carruba, 2015, Identification and dynamical properties of asteroid families, in: *Asteroids IV*, Eds. P. Michel, F.E. DeMeo and W.F. Bottke, (Arizona Univ. Press, Tucson), 20pp.
- 1 J. Masiero, F. DeMeo, T. Kasuga, A.H. Parker, 2015, Asteroid family physical properties, in: *Asteroids IV*, Eds. P. Michel, F.E. DeMeo and W.F. Bottke, (Arizona Univ. Press, Tucson).
- 2 J. Ďurech, B. Carry, M. Delbo, M. Kaasalainen, M. Viikinkoski, 2015, Asteroid models from multiple data sources. in: *Asteroids IV*, Eds. P. Michel, F.E. DeMeo and W.F. Bottke, (Arizona Univ. Press, Tucson).
- 3 V. Carruba, D. Nesvorný, S. Aljbaae, M.E. Huaman, Dynamical evolution of the Cybele asteroids, *Mon. Not. R.*

- 3 W.F. Bottke, **M. Brož**, D. O'Brien, A.C. Bagatin, A. Morbidelli and S. Marchi, 2015, Collisional evolution of the main asteroid belt, in: *Asteroids IV*, Eds. P. Michel, F.E. DeMeo and W.F. Bottke, (Arizona Univ. Press, Tucson), 20pp.

## C1. Práce publikované v odborných časopisech vydávaných v zahraničí

- 1 D. Vokrouhlický and **M. Brož**, 1999, An improved model of the seasonal Yarkovsky force for the regolith-covered asteroid fragments, *Astron. Astrophys.* **350**, 1079–1084. IF 4.479.
  - 1 J.N. Spitale and R. Greenberg, The Yarkovsky effect on regolith-covered bodies, *BAAS* **32**, 2000.
  - 2 E.J. Lyytinen and J. Van Flandern, *Earth Moon Planets* **82-3**, 149, 2000.
  - 3 J.N. Spitale and R. Greenberg, Numerical evaluation of the general Yarkovsky effect: Effects on semimajor axis, *Icarus* **149**, 222, 2001.
  - 4 J.N. Spitale and R. Greenberg, Numerical evaluation of the general Yarkovsky effect: Effects on eccentricity and longitude of periaipse, *Icarus* **156**, 211, 2001.
  - 5 J.N. Spitale and R. Greenberg, Numerical evaluation of the Yarkovsky effect on orbital elements of asteroids, *LPSC* **32**, 1346, 2001.
  - 6 A.A. Guillens, R. Vieira Martins and R.S. Gomes, A global study of the 3/1 resonance neighborhood: A search for unstable asteroids, *Astron. J.* **124**, 2322, 2002.
  - 7 J.N. Spitale, *Detailed study of the Yarkovsky effect on asteroids and solar system implications*, PhD Dissertation, University of Arizona, 2002.
  - 8 E. Skoglov, The influence on the spin vectors of asteroids from the Yarkovsky effect, *Astron. Astrophys.* **393**, 673, 2002.
  - 9 D.P. O'Brien, *The Collisional and Dynamical Evolution of the Main-Belt, NEA, and TNO Populations*, PhD Dissertation, University of Arizona, 2004.
  - 10 M. Mueller, *Surface Properties of Asteroids from Mid-Infrared Observations and Thermophysical Modeling*, PhD Thesis, Freie Universität Berlin, 2007 (<http://www.diss.fu-berlin.de/2007/471/indexe.html>).
- 2 M. Wolf, L. Šarounová, **M. Brož**, R. Horan, 1999, CL Aurigae: a New Photometric Triple Star, *IBVS*, 4683, 1–4. IF –.
  - 1 J.M. Kreiner, C.-H. Kim, I.-S. Nha, 2001, An Atlas of O-C Diagrams of Eclipsing Binary Stars, Cracow, Poland: Wydawnictwo Naukowe Akademii Pedagogicznej.
  - 2 M. Wolf, L. Kotková, L. Brát, D. Hanžl, K. Hornoch, M. Lehký, L. Šmelcer, P. Zasche, CL Aurigae: a Triple System with Mass Transfer, *IBVS* **5780**, 1, 2007.
  - 3 J.W. Lee, Ch.-H. Kim, D.H. Kim, S.-L. Kim, Ch.-U. Lee, R.H. Koch, The First Comprehensive Photometric Study of the Algol-Type System CL Aurigae, *Astron. J.* **139**, 2669, 2010.
- 3 D. Vokrouhlický, **M. Brož**, P. Farinella and Z. Knežević, 2001, Yarkovsky-driven leakage of Koronis family members: I. The case of 2953 Vysheslavia, *Icarus* **150**, 78–93. IF 2.840.
  - 1 V. Zappalá, A. Cellino and A. Dell'Oro, A search for the collisional parent bodies of large NEAs, *Icarus* **157**, 280, 2002.
  - 2 A.A. Guillens, R. Vieira Martins and R.S. Gomes, A global study of the 3/1 resonance neighborhood: A search for unstable asteroids, *Astron. J.* **124**, 2322, 2002.
  - 3 D. Nesvorný and W.F. Bottke, Direct detection of the Yarkovsky effect for main-belt asteroids, *Icarus* **170**, 324, 2004.
  - 4 A. Dell'Oro, G. Bigongiari, P. Paolicchi and A. Cellino, Asteroid families: evidence of ageing of the proper elements, *Icarus* **169**, 341, 2004.
  - 5 A. Lemaitre, Asteroid family classification from very large catalogs, in: *Dynamics of Populations of Planetary Systems*, IAU Colloquium 197, Cambridge University Press, 2005, p. 135.
  - 6 T. Monthé-Diniz, F. Roig and J.M. Carvano, Reanalysis of asteroid families structure through visible spectroscopy, *Icarus* **174**, 54, 2005.
  - 7 A. Dell'Oro and A. Cellino, The random walk of Main Belt asteroids: orbital mobility by non-destructive collisions, *Mon. Not. R. Astron. Soc.* **380**, 399, 2007.
- 4 W.F. Bottke, D. Vokrouhlický, **M. Brož**, D. Nesvorný and A. Morbidelli, 2001, Dynamical spreading of asteroid families by the Yarkovsky effect, *Science* **294**, 1693–1696. IF 31.477.
  - 1 M. Guzzo, Z. Knežević and A. Milani, Probing the Nekhoroshev stability of asteroid orbits, *Celest. Mech. Dyn. Astr.*, **83**, 121, 2002.
  - 2 J.R. Minkel, New studies sharpen picture of near-Earth asteroids, *Scientific American*, Nov 27, 2001.
  - 3 P. Michel, W. Benz, P. Tanga and D. Richardson, Collisions and gravitational reaccumulation: Forming asteroid families and satellites, *Science* **294**, 1696, 2001.
  - 4 D.C. Richardson, Rocks that go bump in the night, *Nature* **417**, 697, 2002.
  - 5 V. Zappalá, A. Cellino and A. Dell'Oro, A search for the collisional parent bodies of large NEAs, *Icarus* **157**, 280, 2002.
  - 6 T.A. Michtchenko, D. Lazzaro, S. Ferraz-Mello and F. Roig, Origin of the basaltic asteroid 1459 Magnya. A dynamical and mineralogical study of the outer main belt, *Icarus* **158**, 343, 2002.

- 7 A.A. Guillens, R. Vieira Martins and R.S. Gomes, A global study of the 3/1 resonance neighborhood: A search for unstable asteroids, *Astron. J.* **124**, 2322, 2002.
- 8 E.I. Chiang, A collisional family in the classical Kuiper belt, *Astrophys. J.* **573**, L65, 2002.
- 9 P. Michel *et al.*, Formation of asteroid families by catastrophic disruption: Simulations with fragmentation and gravitational reaccumulation, *Icarus* **160**, 10, 2002.
- 10 C. Schreiber, Kann der Yarkovsky-Effekt die Asteroiden neu gruppieren?, *Telepolis*, <http://www.heise.de/tp/r4/artikel/16/16261/1.html>
- 11 P. Michel, W. Benz and D.C. Richardson, Disruption of fragmented parent bodies as the origin of asteroid families, *Nature* **421**, 608, 2003.
- 12 V. Trimble and M. Aschwanden, Astrophysics in 2002, *Publ. Astron. Soc. Pac.* **115**, 514, 2003.
- 13 Z. Knežević and A. Milani, Proper element catalogues and asteroid families, *Astron. Astrophys.* **403**, 1165, 2003.
- 14 K. Tsiganis, *Chaotic motion of asteroids*, PhD Thesis, University of Thessaloniky, 2002.
- 15 R.D. Lorentz and J.N. Spitale, The Yarkovsky effect as a heat engine, *Icarus* **170**, 229, 2004.
- 16 P. Michel, W. Benz and D.C. Richardson, Catastrophic disruption of pre-shattered parent bodies, *Icarus* **168**, 420, 2004.
- 17 U. Penco, A. Dell'Oro, P. Paolicchi *et al.*, Yarkovsky depletion and asteroid collisional evolution, *Planet. Sp. Science* **52**, 1087, 2004.
- 18 A. Dell'Oro, G. Bigongiari, P. Paolicchi and A. Cellino, Asteroid families: evidence of ageing of the proper elements, *Icarus* **169**, 341, 2004.
- 19 A. Lemaitre, Asteroid family classification from very large catalogs, in: *Dynamics of Populations of Planetary Systems*, IAU Colloquium 197, Cambridge University Press, 2005, p. 135.
- 20 S. Foglia and G. Masi, New clusters for highly inclined main-belt asteroids, *Minor Planet Bulletin* **31**, 100, 2004.
- 21 A. Cellino, A. Dell'Oro and V. Zappalà, Asteroid families: open problems, *Planet. Sp. Sci.* **52**, 1075, 2004.
- 22 W.S. Koon, J.E. Marsden, S.D. Ross, *et al.*, Geometric mechanics and the dynamics of asteroid pairs, *Ann. New York Acad. Sci.* **1017**, 11, 2004.
- 23 P. Michel, W. Benz and D.C. Richardson, Catastrophic disruption of asteroids and family formation: a review of numerical simulations including both fragmentation and gravitational reaccumulations, *Planet. Sp. Sci.* **52**, 1109, 2004.
- 24 D.P. O'Brien, *The Collisional and Dynamical Evolution of the Main-Belt, NEA, and TNO Populations*, PhD Dissertation, University of Arizona, 2004.
- 25 A.A. Christou, Gravitational scattering within the Hestia group of jovian prograde irregular satellites, *Icarus* **174**, 215, 2005.
- 26 T. Monthé-Diniz, F. Roig and J.M. Carvano, Reanalysis of asteroid families structure through visible spectroscopy, *Icarus* **174**, 54, 2005.
- 27 P. Tanga, Impact of Gaia on dynamics and evolution of the Solar System, in *The Three-Dimensional Universe with Gaia*, C. Turon, K.S. O'Flaherty, M.A.C. Perryman (Eds.), p. 243, 2005.
- 28 M. Čuk and J.A. Burns, Effects of thermal radiation on the dynamics of binary NEAs, *Icarus* **176**, 418, 2005.
- 29 R. Gil-Hutton, Identification of families among highly inclined asteroids, *Icarus* **183**, 93, 2006.
- 30 T. Ito and R. Malhotra, Dynamical transport of asteroid fragments from the nu6 resonance, *Adv. Sp. Res.* **38(4)**, 817, 2006.
- 31 P. Vernazza *et al.*, Physical characterization of the Karin family, *Astron. Astrophys.* **460**, 945, 2006.
- 32 M. Delbò, A. dell'Oro, A.W. Harris, S. Mottola and M. Mueller, Thermal inertia of near-Earth asteroids and implications for the magnitude of the Yarkovsky effect, *Icarus* **190**, 236, 2007.
- 33 K. Tsiganis, Z. Knežević and H. Varvoglis, Reconstructing the orbital history of the Veritas family, *Icarus* **186**, 484, 2007.
- 34 M. Kaasalainen, J. Āurech, B.D. Warner, Y.N. Krugly and N.M. Gaftonyuk, Acceleration of the rotation rate of asteroid 1862 Apollo by radiation torques, *Nature* **446**, 420, 2007.
- 35 A. Dell'Oro and A. Cellino, The random walk of Main Belt asteroids: orbital mobility by non-destructive collisions, *Mon. Not. R. Astron. Soc.* **380**, 399, 2007.
- 36 V. Carruba and T.A. Michtchenko, A frequency approach to asteroid families' identification, *Astron. Astrophys.* **475**, 1145, 2007.
- 37 T. Ito and K. Tanikawa, Trends in 20th century celestial mechanics, *Publ. Nat. Astron. Obs. Japan* **9**, 55, 2007.
- 38 S. Fornasier, F. Marzari, E. Dotto, M.A. Barucci and A. Migliorini, Are the E-type asteroids (2867) Steins, a target of the Rosetta mission, and NEA (3103) Eger remnants of an old asteroid family? *Astron. Astrophys.* **474**, L29, 2007.
- 39 R. Pavlovic, M. Guzzo, Fulfillment of the conditions for the application of the Nekhoroshev theorem to the Koronis and Veritas asteroid families, *Mon. Not. R. Astron. Soc.* **384**, 1575, 2008.
- 40 Z. Ivezić, J.A. Tyson, B. Abel, E. Acosta, R. Allsman, Y. AlSayyad, S.F. Anderson, J. Andrew, R. Angel, G. Angeli, *et al.*, LSST: from Science Drivers to Reference Design and Anticipated Data Products, *arXiv* **0805**, 2366, 2008.
- 41 F. Marchis, P. Descamps, J. Berthier, D. Hestroffer, F. Vachier, M. Baek, A.W. Harris, D. Nesvorný, Main belt binary asteroidal systems with eccentric mutual orbits, *Icarus* **195**, 295, 2008.
- 42 N.A. Moskovitz, S. Lawrence, R. Jedicke, M. Willman, N. Haghighipour, S.J. Bus, E. Gaidos, A Spectroscopically Unique Main-Belt Asteroid: 10537 (1991 RY16), *Astrophys. J.* **682**, 57, 2008.
- 43 N.A. Moskovitz, R. Jedicke, E. Gaidos, M. Willman, D. Nesvorný, R. Fevig, Z. Ivezić, The distribution of basaltic asteroids in the Main Belt, *Icarus* **198**, 77, 2008.
- 44 A. Parker, Z. Ivezić, M. Juric, R. Lupton, M.D. Sekora, A. Kowalski, The size distributions of asteroid families in the SDSS Moving Object Catalog 4, *Icarus* **198**, 138, 2008.
- 45 A. Cellino, A. Dell'Oro, E.F. Tedesco, Asteroid families: Current situation, *Planet. Space Sci.* **57**, 173, 2009.
- 46 D. Nesvorný, D. Vokrouhlický, A. Morbidelli, W.F. Bottke, Asteroidal source of L chondrite meteorites, *Icarus* **200**,

- 698, 2009.
- 47 V. Carruba, The (not so) peculiar case of the Padua family, *Mon. Not. R. Astron. Soc.* **395**, 358, 2009.
  - 48 A.E. Rubin, W.F. Bottke, On the origin of shocked and unshocked CM clasts in H-chondrite regolith breccias., *Met. Planet. Sci.* **44**, 701, 2009.
  - 49 T.S. Statler, Extreme sensitivity of the YORP effect to small-scale topography, *Icarus* **202**, 502, 2009.
  - 50 D.P. O'Brien, The Yarkovsky effect is not responsible for small crater depletion on Eros and Itokawa, *Icarus* **203**, 112, 2009.
  - 51 B.D. Warner, A.W. Harris, D. Vokrouhlický, D. Nesvorný, W.F. Bottke, Analysis of the Hungaria asteroid population, *Icarus* **204**, 172, 2009.
  - 52 W.F. Bottke, D. Nesvorný, D. Vokrouhlický, A. Morbidelli, The Irregular Satellites: The Most Collisionally Evolved Populations in the Solar System, *Astron. J.* **139**, 994, 2010.
  - 53 R.C. Greenwood, I.A. Franchi, A.T. Kearsley, O. Alard, The relationship between CK and CV chondrites, *Geochimica et Cosmochimica Acta* **74**, 1684, 2010.
  - 54 D. Vokrouhlický, D. Nesvorný, W.F. Bottke, A. Morbidelli, Collisionally Born Family About 87 Sylvania, *Astron. J.* **139**, 2148, 2010.
  - 55 A. Celletti, R.S. di, C. Lhotka, L. Stefanelli, Nearly-integrable dissipative systems and celestial mechanics, *The European Physical Journal Special Topics* **186**, 33, 2010.
  - 56 B. Novaković, Portrait of Theobalda as a young asteroid family, *Mon. Not. R. Astron. Soc.* **407**, 1477, 2010.
  - 57 S. Mouret, F. Mignard, Detecting the Yarkovsky effect with the Gaia mission: list of the most promising candidates, *Mon. Not. R. Astron. Soc.* **413**, 741, 2011.
  - 58 B. Novaković, A. Cellino, Z. Knežević, Families among high-inclination asteroids, *Icarus* **216**, 69, 2011.
  - 59 S. Greenstreet, H. Ngo, B. Gladman, The orbital distribution of Near-Earth Objects inside Earth's orbit, *Icarus* **217**, 355, 2012.
  - 60 B. Novaković, A. Dell'Oro, A. Cellino, Z. Knežević, Recent collisional jet from a primitive asteroid, *Mon. Not. R. Astron. Soc.* **425**, 338, 2012.
  - 61 A. Kryszczyńska, Do Slivan states exist in the Flora family? . II. Fingerprints of the Yarkovsky and YORP effects, *Astron. Astrophys.* **551**, 102, 2013.
  - 62 A.A. Christou, Orbital clustering of martian Trojans: An asteroid family in the inner Solar System?, *Icarus* **224**, 144, 2013.
  - 63 K.J. Walsh, M. Delbó, W.F. Bottke, D. Vokrouhlický, D.S. Lauretta, Introducing the Eulalia and new Polana asteroid families: Re-assessing primitive asteroid families in the inner Main Belt, *Icarus* **225**, 283, 2013.
  - 64 M. Kaasalainen, H. Nortunen, Compact YORP formulation and stability analysis, *Astron. Astrophys.* **558**, 104, 2013.
  - 65 F.E. DeMeo, B. Carry, Solar System evolution from compositional mapping of the asteroid belt, *Nature* **505**, 629, 2014.
  - 66 M.-J. Kim, Y.-J. Choi, H.-K. Moon, Y.-I. Byun, N. Brosch, M. Kaplan, S. Kaynar, Ö. Uysal, E. Güzel, R. Behrend, *et al.*, Rotational Properties of the Maria Asteroid Family, *Astron. J.* **147**, 56, 2014.
  - 67 M.J. Dykhuis, L. Molnar, K.S.J. Van, R. Greenberg, Defining the Flora Family: Orbital Properties, Reflectance Properties and Age, *Icarus* **243**, 111, 2014.
  - 68 E. Schunová, R. Jedicke, K.J. Walsh, M. Granvik, R.J. Wainscoat, N. Haghighipour, Properties and evolution of NEO families created by tidal disruption at Earth, *Icarus* **238**, 156, 2014.
  - 69 A. Milani, A. Cellino, Z. Knežević, B. Novaković, F. Spoto, P. Paolicchi, Asteroid families classification: Exploiting very large datasets, *Icarus* **239**, 46, 2014.
- 5 D. Nesvorný, A. Morbidelli, D. Vokrouhlický, W.F. Bottke and M. Brož, 2002, The Flora family: a case of the dynamically dispersed collisional swarm?, *Icarus* **157**, 155–172. IF 2.840.
- 1 T.A. Michtchenko, D. Lazzaro, S. Ferraz-Mello and F. Roig, Origin of the basaltic asteroid 1459 Magnya. A dynamical and mineralogical study of the outer main belt, *Icarus* **158**, 343, 2002.
  - 2 P. Michel *et al.*, Formation of asteroid families by catastrophic disruption: Simulations with fragmentation and gravitational reaccumulation, *Icarus* **160**, 10, 2002.
  - 3 A. Cellino, V. Zappalà and E.F. Tedesco, Near-Earth objects: Origins and need of physical characterization, *Meteorit. Planet. Sci.* **37**, 1965, 2002.
  - 4 B. Schmitz, T. Haggstrom and M. Tassinari, Sediment-dispersed extraterrestrial chromite traces a major asteroid disruption event, *Science* **300**, 961, 2003.
  - 5 Z. Knežević and A. Milani, Proper element catalogues and asteroid families, *Astron. Astrophys.* **403**, 1165, 2003.
  - 6 K. Tsiganis, *Chaotic motion of asteroids*, PhD Thesis, University of Thessaloniky, 2002.
  - 7 A. Dell'Oro, G. Bigongiari, P. Paolicchi and A. Cellino, Asteroid families: evidence of ageing of the proper elements, *Icarus* **169**, 341, 2004.
  - 8 A. Cellino, A. Dell'Oro and V. Zappalà, Asteroid families: open problems, *Planet. Sp. Sci.* **52**, 1075, 2004.
  - 9 P.R. Heck, B. Schmitz, H. Baur, *et al.*, Fast delivery of meteorites to Earth after a major asteroid collision, *Nature* **430**, 323, 2004.
  - 10 A. Lemaitre, Asteroid family classification from very large catalogs, in: *Dynamics of Populations of Planetary Systems*, IAU Colloquium 197, Cambridge University Press, 2005, p. 135.
  - 11 E.R.D. Scott and L. Wilson, Meteoritic and other constraints on the internal structure and impact history of small asteroids, *Icarus* **174**, 46, 2005.
  - 12 H. Scholl, F. Marzari and P. Tricarico, Dynamics of Mars Trojans, *Icarus* **175**, 397, 2005.
  - 13 E.F. Tedesco, A. Cellino and V. Zappalà, The statistical asteroid model I. The main-belt population for diameters greater than 1 km, *Astron. J.* **129**, 2869, 2005.
  - 14 S.J. Kenyon and B.C. Bromley, Prospects for detection of catastrophic collisions in debris disks, *Astron. J.* **130**,

- 269, 2005.
- 15 A.A. Christou, Gravitational scattering within the Himalia group of jovian prograde irregular satellites, *Icarus* **174**, 215, 2005.
  - 16 D.P. O'Brien and R. Greenberg, Collisional and dynamical evolution of the main-belt and NEA size distributions, *Icarus* **178**, 179, 2005.
  - 17 T. Monthé-Diniz, F. Roig and J.M. Carvano, Reanalysis of asteroid families structure through visible spectroscopy, *Icarus* **174**, 54, 2005.
  - 18 A. Bishoff, E.R.D.Scott, K. Metzler and C.A. Goodrich, Nature and origin of meteoritic breccias, in: *Meteorites and the Early Solar System II*, Eds. D.S. Lauretta and H.Y. McSween, Univ. of Arizona Press, Tucson, p. 679, 2006.
  - 19 S.J. Kenyon and B.C. Bromley, Terrestrial planet formation I. The transition from oligarchic growth to chaotic growth, *Astron. J.*, **131**, 1837, 2006.
  - 20 R. Gil-Hutton, Identification of families among highly inclined asteroids, *Icarus* **183**, 1, 2006.
  - 21 A. Alvarez-Candal, R. Duffard, D. Lazzaro and T. Michtchenko, The inner region of the asteroid Main Belt: a spectroscopic and dynamical analysis, *Astron. Astrophys.* **459**, 969, 2006.
  - 22 K. Tsiganis, Z. Knežević and H. Varvoglis, Reconstructing the orbital history of the Veritas family, *Icarus* **186**, 484, 2007.
  - 23 M. Mueller, Surface Properties of Asteroids from Mid-Infrared Observations and Thermophysical Modeling, PhD Thesis, Freie Universität Berlin, 2007 (<http://www.diss.fu-berlin.de/2007/471/indexe.html>)
  - 24 R.C. Greenwood, B. Schmitz, J.C. Bridges, R. Hutchison and I.A. Franchi, Disruption of the L chondrite parent body: New oxygen isotope evidence from Ordovician relict chromite grains, *Earth Planet. Sci. Lett.* **262**, 204, 2007.
  - 25 J.C. Bridges, B. Schmitz, R. Hutchison, R.C. Greenwood, M. Tassinari and I.A. Franchi, Petrographic classification of middle ordovician fossil meteorites from Sweden, *Meteorit. Planet. Sci.* **42**, 1781, 2007.
  - 26 S. Kelley, The geochronology of large igneous provinces, terrestrial impact craters, and their relationship to mass extinctions on Earth, *J. Geolog. Soc.* **164**, 923, 2007.
  - 27 A. Bouvier, J. Blichert-Toft, J.D. Vervoort, P. Gillet and F. Albarède, The case for old basaltic shergottites, *Earth Planet. Sci. Lett.* **266**, 105, 2008.
- 6 M. Brož, D. Vokrouhlický, F. Roig, D. Nesvorný, W.F. Bottke and A. Morbidelli, 2005, Yarkovsky origin of the unstable asteroids in the 2/1 mean motion resonance with Jupiter, *Mon. Not. R. Astr. Soc.* **359**, 1437–1455. IF 5.226.
- 1 W.F. Bottke, D. Vokrouhlický, D.P. Rubincam, D. Nesvorný, The Yarkovsky and Yorp Effects: Implications for Asteroid Dynamics, *Ann. Rev. Earth Planet. Sci.* **34**, 157, 2006.
  - 2 J. Vaubaillon, P. Lamy, and L. Jorda, On the mechanisms leading to orphan meteoroid streams, *Mon. Not. R. Astron. Soc.* **370**, 1841, 2006.
  - 3 G.C. de Elia and A. Brunini, Collisional and dynamical evolution of the main belt and NEA populations, *Astron. Astrophys.* **466**, 1159, 2007.
  - 4 K. Tanikawa and T. Ito, Subsystems in a stable planetary system, *Publ. Astron. Soc. Japan* **59**, 989, 2007.
  - 5 B. Novaković, K. Tsiganis, Z. Knežević, Chaotic transport and chronology of complex asteroid families, *Mon. Not. R. Astron. Soc.* **402**, 1263, 2010.
  - 6 B. Novaković, Portrait of Theobalda as a young asteroid family, *Mon. Not. R. Astron. Soc.* **407**, 3, 1477, 2010.
  - 7 R. Brasser, K.J. Walsh, Stability analysis of the martian obliquity during the Noachian era, *Icarus* **213**, 423, 2011.
  - 8 C. Gales, A cartographic study of the phase space of the elliptic restricted three body problem. Application to the Sun-Jupiter-Asteroid system, *Comm. Nonlin. Sci. Num. Simul.* **17**, 12, 4721, 2012.
  - 9 K. Tsiganis, H. Varvoglis, G. Tsirvoulis, G. Voyatzis, Constraining asteroid dynamical models using GAIA data, *Planet. Sp. Sci.* **73**, 47, 2012.
  - 10 K.I. Antoniadou, D. Veras, Linking long-term planetary N-body simulations with periodic orbits: application to white dwarf pollution, *Mon. Not. R. Astron. Soc.* **463**, 4108, 2016.
- 7 D. Vokrouhlický, M. Brož, T. Michałowski, S.M. Slivan, F. Colas, L. Šarounová and F.P. Velichko, 2006, Spin axis of (2953) Vyshelevia and its implications, *Icarus* **180**, 217–223. IF 2.840.
- 1 S.M. Slivan *et al.*, Rotation rates in the Koronis family, complete to  $H = 11.2$ , *Icarus* **195**, 226, 2008.
  - 2 S.M. Slivan, R.P. Binzel, M. Kaasalainen, A.N. Hock, A.J. Klesman, L.J. Eckelman, R.D. Stephens, Spin vectors in the Koronis family. II. Additional clustered spins, and one stray, *Icarus* **200**, 514, 2009.
  - 3 A. Kryszczyńska, F. Colas, M. Polinska, *et al.*, Do Slivan states exist in the Flora family? I. Photometric survey of the Flora region, *Astron. Astrophys.* **546**, 72, 2012.
- 8 D. Vokrouhlický, M. Brož, A. Morbidelli, W.F. Bottke, D. Nesvorný, D. Lazzaro and A.S. Rivkin, 2006, Yarkovsky footprints in the Eos family, *Icarus* **182**, 92–117. IF 2.840.
- 1 T. Monthé-Diniz and J.M. Carvano, 221 Eos: A remnant of a partially differentiated parent body? *Astron. Astrophys.* **442**, 727, 2005.
  - 2 D. Nesvorný, D. Vokrouhlický, New Candidates for Recent Asteroid Breakups, *Astron. J.* **132**, 195, 2006.
  - 3 A. Dell'Oro and A. Cellino, The random walk of Main Belt asteroids: orbital mobility by non-destructive collisions, *Mon. Not. R. Astron. Soc.* **380**, 399, 2007.
  - 4 V. Carruba, F. Roig, T.A. Michtchenko, S. Ferraz-Mello, D. Nesvorný, Modeling close encounters with massive asteroids: a Markovian approach. An application to the Vesta family, *Astron. Astrophys.* **465**, 315, 2007.
  - 5 S. Breiter, H. Michalska, D. Vokrouhlický, W. Borczyk, Radiation-induced torques on spheroids, *Astron. Astrophys.* **471**, 354, 2007.

- 6 V. Carruba and T.A. Michtchenko, A frequency approach to asteroid families' identification, *Astron. Astrophys.* **475**, 1145, 2007.
  - 7 D. Vokrouhlický, D. Nesvorný, W.F. Bottke, Evolution of Dust Trails into Bands, *Astrophys. J.* **672**, 696, 2008.
  - 8 T. Mothé-Diniz, J.M. Carvano, S.J. Bus, R. Duffard and T.H. Burbine, Mineralogical analysis of the Eos family from near-infrared spectra, *Icarus*, **195**, 277, 2008.
  - 9 V. Carruba, T.A. Michtchenko, A frequency approach to identifying asteroid families. II. Families interacting with nonlinear secular resonances and low-order mean-motion resonances, *Astron. Astrophys.* **493**, 267, 2009.
  - 10 A. Cellino, A. Dell'Oro, E.F. Tedesco, Asteroid families: Current situation, *Planet. Space Sci.* **57**, 173, 2009.
  - 11 V. Carruba, The (not so) peculiar case of the Padua family, *Mon. Not. R. Astron. Soc.* **395**, 358, 2009.
  - 12 B.E. Clark, M.E. Ockert-Bell, E.A. Cloutis, D. Nesvorný, T. Mothé-Diniz, S.J. Bus, Spectroscopy of K-complex asteroids: Parent bodies of carbonaceous meteorites?, *Icarus* **202**, 119, 2009.
  - 13 V. Carruba, An analysis of the region of the Phocaea dynamical family, *Mon. Not. R. Astron. Soc.* **398**, 1512, 2009.
  - 14 B.D. Warner, A.W. Harris, D. Vokrouhlický, D. Nesvorný, W.F. Bottke, Analysis of the Hungaria asteroid population, *Icarus* **204**, 172, 2009.
  - 15 B. Novaković, K. Tsiganis, Z. Knežević, Chaotic transport and chronology of complex asteroid families, *Mon. Not. R. Astron. Soc.* **402**, 1263, 2010.
  - 16 R.C. Greenwood, I.A. Franchi, A.T. Kearsley, O. Alard, The relationship between CK and CV chondrites, *Geochimica et Cosmochimica Acta* **74**, 1684, 2010.
  - 17 D. Vokrouhlický, D. Nesvorný, W.F. Bottke, A. Morbidelli, Collisionally Born Family About 87 Sylvania, *Astron. J.* **139**, 2148, 2010.
  - 18 B. Novaković, K. Tsiganis, Z. Knežević, Dynamical portrait of the Lixiaohua asteroid family, *Celest. Mech. Dyn. Astr.* **107**, 35, 2010.
  - 19 A. Milani, Z. Knežević, B. Novaković, A. Cellino, Dynamics of the Hungaria asteroids, *Icarus* **207**, 769, 2010.
  - 20 M. Willman, R. Jedicke, N. Moskovitz, D. Nesvorný, D. Vokrouhlický, T. Mothé-Diniz, Using the youngest asteroid clusters to constrain the space weathering and gardening rate on S-complex asteroids, *Icarus* **208**, 758, 2010.
  - 21 M. Willman, R. Jedicke, Asteroid age distributions determined by space weathering and collisional evolution models, *Icarus* **211**, 504, 2011.
  - 22 P.A. Taylor, J. Margot, Binary asteroid systems: Tidal end states and estimates of material properties, *Icarus* **212**, 661, 2011.
  - 23 M.R. Solonoi, M. Hammergren, G. Gyuk, A. Puckett, AVAST survey 0.4-1.0  $\mu\text{m}$  spectroscopy of igneous asteroids in the inner and middle main belt, *Icarus* **220**, 577, 2012.
  - 24 R. Stevenson, E.A. Kramer, J.M. Bauer, J.R. Masiero, A.K. Mainzer, Characterization of Active Main Belt Object P/2012 F5 (Gibbs): A Possible Impacted Asteroid, *Astrophys. J.* **759**, 142, 2012.
  - 25 B.P. Weiss, L.T. Elkins-Tanton, Differentiated Planetesimals and the Parent Bodies of Chondrites, *Annu. Rev. Earth Planet. Sci.* **41**, 529, 2013.
  - 26 K.J. Walsh, M. Delbó, W.F. Bottke, D. Vokrouhlický, D.S. Lauretta, Introducing the Eulalia and new Polana asteroid families: Re-assessing primitive asteroid families in the inner Main Belt, *Icarus* **225**, 283, 2013.
  - 27 M. Sekiya, A.A. Shimoda, An iterative method for obtaining a nonlinear solution for the temperature distribution of a rotating spherical body revolving in a circular orbit around a star, *Planet. Space Sci.* **84**, 112, 2013.
  - 28 V. Carruba, R.C. Domingos, M.E. Huaman, C.R.d. Santos, D. Souami, Dynamical evolution and chronology of the Hygiea asteroid family, *Mon. Not. R. Astron. Soc.* **437**, 2279, 2014.
  - 29 B. Novaković, H.H. Hsieh, A. Cellino, M. Micheli, M. Pedani, Discovery of a young asteroid cluster associated with P/2012 F5 (Gibbs), *Icarus* **231**, 300, 2014.
  - 30 V. Carruba, S. Aljbaae, D. Souami, Peculiar Euphrosyne, *Astrophys. J.* **792**, 46, 2014.
  - 31 A. Milani, A. Cellino, Z. Knežević, B. Novaković, F. Spoto, P. Paolicchi, Asteroid families classification: Exploiting very large datasets, *Icarus* **239**, 46, 2014.
- 9 D. Vokrouhlický, M. Brož, W.F. Bottke, D. Nesvorný and A. Morbidelli, 2006, Yarkovsky/YORP chronology of asteroid families, *Icarus* **182**, 118–142. IF 2.840.
- 1 D. Nesvorný, D. Vokrouhlický, New Candidates for Recent Asteroid Breakups, *Astron. J.* **132**, 195, 2006.
  - 2 M. Kaasalainen, J. Ďurech, B.D. Warner, Y.N. Krugly and N.M. Gaftonyuk, Acceleration of the rotation rate of asteroid 1862 Apollo by radiation torques, *Nature* **446**, 420, 2007.
  - 3 A. Dell'Oro and A. Cellino, The random walk of Main Belt asteroids: orbital mobility by non-destructive collisions, *Mon. Not. R. Astron. Soc.* **380**, 399, 2007.
  - 4 G.C. de Elia and A. Brunini, Collisional and dynamical evolution of the main belt and NEA populations, *Astron. Astrophys.* **466**, 1159, 2007.
  - 5 G.C. de Elia and A. Brunini, Collisional and dynamical evolution of the L4 Trojan asteroids, *Astron. Astrophys.* **475**, 375, 2007.
  - 6 V. Carruba, F. Roig, T.A. Michtchenko, S. Ferraz-Mello, D. Nesvorný, Modeling close encounters with massive asteroids: a Markovian approach. An application to the Vesta family, *Astron. Astrophys.* **465**, 315, 2007.
  - 7 D. Vokrouhlický, D. Nesvorný, W.F. Bottke, Evolution of Dust Trails into Bands, *Astrophys. J.* **672**, 696, 2008.
  - 8 D. Nesvorný, F. Roig, B. Gladman, D. Lazzaro, V. Carruba, T. Mothé-Diniz, Fugitives from the Vesta family, *Icarus* **193**, 85, 2008.
  - 9 M. Micheli and P. Paolicchi, YORP effect on real objects. I. Statistical study, *Astron. Astrophys.* **490**, 387, 2008.
  - 10 V. Carruba, T.A. Michtchenko, A frequency approach to identifying asteroid families. II. Families interacting with nonlinear secular resonances and low-order mean-motion resonances, *Astron. Astrophys.* **493**, 267, 2009.
  - 11 D.J. Majaess, D. Higgins, L.A. Molnar, M.J. Haegert, D.J. Lane, D.G. Turner, I. Nielsen, New Constraints on the Asteroid 298 Baptistina, the Alleged Family Member of the K/T Impactor, *J. R. Astron. Soc. Canada* **103**, 7, 2009.
  - 12 A. Cellino, A. Dell'Oro, E.F. Tedesco, Asteroid families: Current situation, *Planet. Space Sci.* **57**, 173, 2009.



- 13 D. Nesvorný, D. Vokrouhlický, A. Morbidelli, W.F. Bottke, Asteroidal source of L chondrite meteorites, *Icarus* **200**, 698, 2009.
  - 14 M. Brozovic, S.J. Ostro, L.A.M. Benner, J.D. Giorgini, R.F. Jurgens, R. Rose, M.C. Nolan, A.A. Hine, C. Magri, D.J. Scheeres, J. Margot, Radar observations and a physical model of Asteroid 4660 Nereus, a prime space mission target, *Icarus* **201**, 153, 2009.
  - 15 V. Carruba, The (not so) peculiar case of the Padua family, *Mon. Not. R. Astron. Soc.* **395**, 358, 2009.
  - 16 V. Carruba, An analysis of the region of the Phocaea dynamical family, *Mon. Not. R. Astron. Soc.* **398**, 1512, 2009.
  - 17 B.D. Warner, A.W. Harris, D. Vokrouhlický, D. Nesvorný, W.F. Bottke, Analysis of the Hungaria asteroid population, *Icarus* **204**, 172, 2009.
  - 18 B. Novaković, K. Tsiganis, Z. Knežević, Chaotic transport and chronology of complex asteroid families, *Mon. Not. R. Astron. Soc.* **402**, 1263, 2010.
  - 19 D. Vokrouhlický, D. Nesvorný, W.F. Bottke, A. Morbidelli, Collisionally Born Family About 87 Sylvia, *Astron. J.* **139**, 2148, 2010.
  - 20 B. Novaković, K. Tsiganis, Z. Knežević, Dynamical portrait of the Lixiaohua asteroid family, *Celest. Mech. Dyn. Astr.* **107**, 35, 2010.
  - 21 A. Milani, Z. Knežević, B. Novaković, A. Cellino, Dynamics of the Hungaria asteroids, *Icarus* **207**, 769, 2010.
  - 22 M.R.M. Izawa, P.L. King, R.L. Flemming, R.C. Peterson, P.J.A. McCausland, Mineralogical and spectroscopic investigation of enstatite chondrites by X-ray diffraction and infrared reflectance spectroscopy, *J. Geophys. Res.* **115**, 7008, 2010.
  - 23 M. Willman, R. Jedicke, N. Moskovitz, D. Nesvorný, D. Vokrouhlický, T. Mothé-Diniz, Using the youngest asteroid clusters to constrain the space weathering and gardening rate on S-complex asteroids, *Icarus* **208**, 758, 2010.
  - 24 H. Campins, A. Morbidelli, K. Tsiganis, L.J. de, J. Licandro, D. Lauretta, The Origin of Asteroid 101955 (1999 RQ36), *Astrophys. J.* **721**, 53, 2010.
  - 25 B. Novaković, Portrait of Theobalda as a young asteroid family, *Mon. Not. R. Astron. Soc.* **407**, 1477, 2010.
  - 26 P. Jenniskens, J. Vaubaillon, R.P. Binzel, F.E. DeMeo, D. Nesvorný, W.F. Bottke, A. Fitzsimmons, T. Hiroi, F. Marchis, J.L. Bishop, *et al.*, Almahata Sitta (=asteroid 2008 TC3) and the search for the ureilite parent body, *Met. Planet. Sci.* **45**, 1590, 2010.
  - 27 V. Carruba, The stable archipelago in the region of the Pallas and Hansa dynamical families, *Mon. Not. R. Astron. Soc.* **408**, 580, 2010.
  - 28 M. Willman, R. Jedicke, Asteroid age distributions determined by space weathering and collisional evolution models, *Icarus* **211**, 504, 2011.
  - 29 V. Carruba, A. Morbidelli, On the first nu6 anti-aligned librating asteroid family of Tina, *Mon. Not. R. Astron. Soc.* **412**, 2040, 2011.
  - 30 T. Gallardo, J. Venturini, F. Roig, R. Gil-Hutton, Origin and sustainability of the population of asteroids captured in the exterior resonance 1:2 with Mars, *Icarus* **214**, 632, 2011.
  - 31 B. Novaković, A. Cellino, Z. Knežević, Families among high-inclination asteroids, *Icarus* **216**, 69, 2011.
  - 32 S. Breiter, A. Rozek, D. Vokrouhlický, Yarkovsky-O'Keefe-Radzievskii-Paddack effect on tumbling objects, *Mon. Not. R. Astron. Soc.* **417**, 2478, 2011.
  - 33 J. Gayon-Markt, M. Delbo, A. Morbidelli, S. Marchi, On the origin of the Almahata Sitta meteorite and 2008 TC3 asteroid, *Mon. Not. R. Astron. Soc.* **424**, 508, 2012.
  - 34 E. Schunová, M. Granvik, R. Jedicke, G. Gronchi, R. Wainscoat, S. Abe, Searching for the first near-Earth object family, *Icarus* **220**, 1050, 2012.
  - 35 J. Ďurech, D. Vokrouhlický, A.R. Baransky, S. Breiter, O.A. Burkhonov, W. Cooney, V. Fuller, N.M. Gaftonyuk, J. Gross, R.Ya. Inasaridze, *et al.*, Analysis of the rotation period of asteroids (1865) Cerberus, (2100) Ra-Shalom, and (3103) Eger — search for the YORP effect, *Astron. Astrophys.* **547**, 10, 2012.
  - 36 J.R. Masiero, A.K. Mainzer, T. Grav, J.M. Bauer, R. Jedicke, Revising the Age for the Baptistina Asteroid Family Using WISE/NEOWISE Data, *Astrophys. J.* **759**, 14, 2012.
  - 37 J.R. Masiero, A.K. Mainzer, T. Grav, J.M. Bauer, R.M. Cutri, C. Nugent, M.S. Cabrera, Preliminary Analysis of WISE/NEOWISE 3-Band Cryogenic and Post-cryogenic Observations of Main Belt Asteroids, *Astrophys. J.* **759**, 8, 2012.
  - 38 K.J. Walsh, M. Delbó, W.F. Bottke, D. Vokrouhlický, D.S. Lauretta, Introducing the Eulalia and new Polana asteroid families: Re-assessing primitive asteroid families in the inner Main Belt, *Icarus* **225**, 283, 2013.
  - 39 H. Campins, L.J. de, A. Morbidelli, J. Licandro, J. Gayon-Markt, M. Delbo, P. Michel, The Origin of Asteroid 162173 (1999 JU3), *Astron. J.* **146**, 26, 2013.
  - 40 M. Sekiya, A.A. Shimoda, An iterative method for obtaining a nonlinear solution for the temperature distribution of a rotating spherical body revolving in a circular orbit around a star, *Planet. Space Sci.* **84**, 112, 2013.
  - 41 M. Kaasalainen, H. Nortunen, Compact YORP formulation and stability analysis, *Astron. Astrophys.* **558**, 104, 2013.
  - 42 V. Carruba, R.C. Domingos, M.E. Huaman, C.R.d. Santos, D. Souami, Dynamical evolution and chronology of the Hygiea asteroid family, *Mon. Not. R. Astron. Soc.* **437**, 2279, 2014.
  - 43 M.-J. Kim, Y.-J. Choi, H.-K. Moon, Y.-I. Byun, N. Brosch, M. Kaplan, S. Kaynar, Ö. Uysal, E. Güzel, R. Behrend, *et al.*, Rotational Properties of the Maria Asteroid Family, *Astron. J.* **147**, 56, 2014.
  - 44 M.J. Dykhuis, L. Molnar, K.S.J. Van, R. Greenberg, Defining the Flora Family: Orbital Properties, Reflectance Properties and Age, *Icarus* **243**, 111, 2014.
  - 45 V. Carruba, S. Aljbaae, D. Souami, Peculiar Euphrosyne, *Astrophys. J.* **792**, 46, 2014.
  - 46 A. Milani, A. Cellino, Z. Knežević, B. Novaković, F. Spoto, P. Paolicchi, Asteroid families classification: Exploiting very large datasets, *Icarus* **239**, 46, 2014.
- 10 D. Vokrouhlický, M. Brož, W.F. Bottke, D. Nesvorný and A. Morbidelli, 2006, The peculiar case of

the Agnia asteroid family, *Icarus* **183**, 349–361. IF 2.840.

- 1 D. Nesvorný, D. Vokrouhlický, New Candidates for Recent Asteroid Breakups, *Astron. J.* **132**, 195, 2006.
  - 2 V. Carruba and T.A. Michtchenko, A frequency approach to asteroid families' identification, *Astron. Astrophys.* **475**, 1145, 2007.
  - 3 D. Vokrouhlický, S. Breiter, D. Nesvorný, W.F. Bottke, Generalized YORP evolution: Onset of tumbling and new asymptotic states, *Icarus* **191**, 636, 2007.
  - 4 S. Breiter, H. Michalska, D. Vokrouhlický, W. Borczyk, Radiation-induced torques on spheroids, *Astron. Astrophys.* **471**, 354, 2007.
  - 5 B.D. Warner, A.W. Harris, D. Vokrouhlický, D. Nesvorný, W.F. Bottke, Analysis of the Hungaria asteroid population, *Icarus* **204**, 172, 2009.
  - 6 V. Carruba, An analysis of the region of the Phocaea dynamical family, *Mon. Not. R. Astr. Soc.* **398**, 1512, 2009.
  - 7 V. Carruba, The (not so) peculiar case of the Padua family, *Mon. Not. R. Astr. Soc.* **395**, 358, 2009.
  - 8 V. Carruba, T.A. Michtchenko, A frequency approach to identifying asteroid families. II. Families interacting with nonlinear secular resonances and low-order mean-motion resonances, *Astron. Astrophys.* **439**, 267, 2009.
  - 9 D. Vokrouhlický, D. Nesvorný, W.F. Bottke, A. Morbidelli, Collisionally born family about 87 Sylvania, *Astron. J.* **139**, 2148, 2010.
  - 10 T.A. Michtchenko, D. Lazzaro, J.M. Carvano, S. Ferraz-Mello, Dynamic picture of the inner asteroid belt: implications for the density, size and taxonomic distributions of real objects, *Mon. Not. R. Astron. Soc.* **401**, 2499, 2010.
  - 11 V. Carruba, A. Morbidelli, On the first v6 anti-aligned librating asteroid family of Tina, *Mon. Not. R. Astron. Soc.* **412**, 2040, 2011.
  - 12 V. Carruba, R.C. Domingos, D. Nesvorný, F. Roig, M.E. Huaman, D. Souami, A multidomain approach to asteroid families' identification, *Mon. Not. R. Astron. Soc.* **433**, 2075, 2013.
  - 13 V. Carruba, S. Aljbaae, D. Souami, Peculiar Euphrosyne, *Astrophys. J.* **792**, 46, 2014.
  - 14 V. Carruba, R.C. Domingos, M.E. Huaman, C.R. dos Santos, D. Souami, Dynamical evolution and chronology of the Hygiea asteroid family, *Mon. Not. R. Astron. Soc.* **437**, 2279, 2014.
  - 15 V. Carruba, M.E. Huaman, R.C. Domingos, C.R. dos Santos, D. Souami, Dynamical evolution of V-type asteroids in the central main belt, *Mon. Not. R. Astron. Soc.* **439**, 3168, 2014.
  - 16 A. Milani, A. Cellino, Z. Knežević, B. Novaković, F. Spoto, P. Paolicchi, Asteroid families classification: Exploiting very large datasets, *Icarus* **239**, 46, 2014.
- 11 **M. Brož** and D. Vokrouhlický, 2008, Asteroid families in the first-order resonances with Jupiter, *Mon. Not. R. Astr. Soc.* **390**, 715–732. IF 5.226.
- 1 D. Jewitt, B. Yang, N. Haghighipour, Main-Belt Comet P/2008 R1 (Garradd), *Astron. J.* **137**, 4313, 2009.
  - 2 T. Kasuga, Thermal Evolution of the Phaethon-Geminid Stream Complex, *Earth Moon Planets* **105**, 321, 2009.
  - 3 V. Carruba, An analysis of the region of the Phocaea dynamical family, *Mon. Not. R. Astr. Soc.* **398**, 1512, 2009.
  - 4 J.D. Schnittman, The Lagrange equilibrium points L4 and L5 in black hole binary system, *Astrophys. J.* **724**, 39, 2010.
  - 5 V. Carruba, The stable archipelago in the region of the Pallas and Hansa dynamical families, *Mon. Not. R. Astr. Soc.* **408**, 580, 2010.
  - 6 B. Novaković, Portrait of Theobalda as a young asteroid family, *Mon. Not. R. Astron. Soc.* **407**, 3, 1477, 2010.
  - 7 D. Vokrouhlický, D. Nesvorný, W.F. Bottke, A. Morbidelli, Collisionally born family about 87 Sylvania, *Astron. J.* **139**, 2148, 2010.
  - 8 D. Vokrouhlický, D. Nesvorný, W.F. Bottke, A. Morbidelli, The irregular satellites: The most collisionally evolved populations in the Solar System, *Astron. J.* **139**, 994, 2010.
  - 9 V. Carruba, A. Morbidelli, On the first v6 anti-aligned librating asteroid family of Tina, *Mon. Not. R. Astron. Soc.* **412**, 2040, 2011.
  - 10 E.L. Ryan, C.E. Woodward, Albedos of small Hilda group asteroids as revealed by Spitzer, *Astron. J.* **141**, 186, 2011.
  - 11 O. Karlsson, Creation, detection, and evolution of Jupiter Trojan families, *Astron. N.* **332**, 562, 2011.
  - 12 T. Grav, A.K. Mainzer, J. Bauer, J. Masiero, T. Spahr, R.S. McMillan, R. Walker, et al., WISE/NEOWISE observations of the Hilda population: Preliminary results, *Astrophys. J.* **744**, 197, 2012.
  - 13 D. Vokrouhlický, D. Nesvorný, Sun-grazing orbit of the unusual near-Earth object 2004 LG, *Astron. Astrophys.* **541**, 109, 2012.
  - 14 T. Kasuga, F. Usui, S. Hasegawa, D. Kuroda, T. Ootsubo, T.G. Müller, M. Ishiguro, AKARI/AcuA physical studies of the Cybele asteroid family, *Astron. J.* **143**, 141, 2012.
  - 15 B. Novaković, H.H. Hsieh, A. Cellino, P/2006 VW139: a main-belt comet born in an asteroid collision? *Mon. Not. R. Astron. Soc.* **424**, 1432, 2012.
  - 16 B. Novaković, A. Dell'Oro, A. Cellino, Z. Knežević, Recent collisional jet from a primitive asteroid, *Mon. Not. R. Astron. Soc.* **425**, 338, 2012.
  - 17 C. de la Fuente Marcos, R. de la Fuente Marcos, A resonant family of dynamically cold small bodies in the near-Earth asteroid belt, *Mon. Not. R. Astron. Soc.* **434**, 1, 2013.
  - 18 M.A. Galiazzo, Á Bazzó, M.S. Huber, A. Losiak, R. Dvorak, C. Koeberl, A statistical dynamical study of meteorite impactors: A case study based on parameters derived from the Bosumtwi impact event, *Astron. N.* **334**, 936, 2013.
  - 19 B. Novaković, H.H. Hsieh, A. Cellino, M. Micheli, M. Pedani, Discovery of a young asteroid cluster associated with P/2012 F5 (Gibbs), *Icarus* **231**, 300, 2014.
  - 20 C. de la Fuente Marcos, R. de la Fuente Marcos, Extreme trans-Neptunian objects and the Kozai mechanism: signalling the presence of trans-Plutonian planets, *Mon. Not. R. Astron. Soc.* **434**, 59, 2014.

- 21 M. Čuk, A.A. Christou, D.P. Hamilton, Yarkovsky-driven spreading of the Eureka family of Mars Trojans, *Icarus* **252**, 339, 2015.
- 22 T.A. Vinogradova, Identification of asteroid families in Trojans and Hildas, *Mon. Not. R. Astron. Soc.* **454**, 2436, 2015.
- 23 K.I. Antoniadou, D. Veras, Linking long-term planetary N-body simulations with periodic orbits: application to white dwarf pollution, *Mon. Not. R. Astron. Soc.* **463**, 4108, 2016.
- 24 A. Milani, Z. Knežević, F. Spoto, A. Cellino, B. Novakov'c, G. Tsirvoulis, On the ages of resonant, eroded and fossil asteroid families, *Icarus* **288**, 240, 2017.
- 12 **M. Brož**, P. Mayer, T. Pribulla, P. Zasche, D. Vokrouhlický and R. Uhlář, 2010, A unified solution for the orbit and light-time effect in the V505 Sgr system, *Astron. J.* **139**, 6, 2258–2268. IF 6.280.
- 1 Z. Cvetković, R. Pavlović, S. Ninković A New Recalculated Orbit for the Visual Binary CHR 90 *Astron. J.* **140**, 1, 25, 2010.
  - 2 B.D. Mason, W.I. Hartkopf, A. Tokovinin Binary Star Orbits. IV. Orbits of 18 Southern Interferometric Pairs *Astron. J.* **140**, 3, 735, 2010.
  - 3 R.Ya. Zhuchkov, E.V. Malogolovets, O.V. Kiyeva, V.V. Orlov, I.F. Bikmaev, Yu.Yu. Balega, Physical parameters and dynamical properties of the multiple system iota UMA (ADS 7114), *Astron. Rep.* **56**, 512, 2012.
  - 4 M. Tanriver, The new photometric solution and light curve study of the semi-detached binary system ASAS ID 211049-3657.9, *New Astron.* **31**, 20, 2014.
- 13 **M. Brož** and J. Rozehnal, 2011, Eurybates — the only asteroid family among Trojans? *Mon. Not. R. Astr. Soc.* **414**, 565–574. IF 5.226.
- 1 A.A. Christou, Orbital clustering of martian Trojans: An asteroid family in the inner Solar System? *Icarus* **224**, 144, 2013.
  - 2 D. Nesvorný, D. Vokrouhlický, A. Morbidelli, Capture of Trojans by Jumping Jupiter *Astrophys. J.* **768**, 45, 2013.
  - 3 B. Novaković, Orbital and Dynamical Characteristics of Small Bodies in the Region of Inner Planets, Asteroids: Prospective Energy and Material Resources, Ed. Viorel Badescu. Berlin: Springer, 2013, p. 45-79. ISBN 9783642392436.
  - 4 R.P. Di Sisto, X.S. Ramos, C. Beaugé, Giga-year evolution of Jupiter Trojans and the asymmetry problem, *Icarus* **243**, 287, 2014.
  - 5 I. Wong, M.E. Brown, J.P. Emery, The Differing Magnitude Distributions of the Two Jupiter Trojan Color Populations, *Astron. J.* **148**, 112, 2014.
  - 6 M. Čuk, A.A. Christou, D.P. Hamilton, Yarkovsky-driven spreading of the Eureka family of Mars Trojans, *Icarus* **252**, 339, 2015.
  - 7 T.A. Vinogradova, Identification of asteroid families in Trojans and Hildas, *Mon. Not. R. Astron. Soc.* **454**, 2436, 2015.
  - 8 I. Wong, M.E. Brown, A Hypothesis for the Color Bimodality of Jupiter Trojans, *Astron. J.* **152**, 90, 2016.
  - 9 J.R. Stuart, K.C. Howell, R.S. Wilson, Design of End-to-End Trojan Asteroid Rendezvous Tours Incorporating Scientific Value, *J. Spacecraft and Rockets* **53**, 278, 2016.
- 14 **M. Brož**, D. Vokrouhlický, A. Morbidelli, D. Nesvorný and W.F. Bottke, 2011, Did the Hilda collisional family form during the late heavy bombardment? *Mon. Not. R. Astr. Soc.* **414**, 2716–2727. IF 5.226.
- 1 A. Morbidelli, S. Marchi, W.F. Bottke, D.A. Kring, A Sawtooth-like timeline for the first billion year of Lunar Bombardment, *Earth and Planet. Sci. Lett.* **355**, 144, 2012.
  - 2 T. Kasuga, F. Usui, S. Hasegawa, D. Kuroda, T. Ootsubo, T.G. Müller, M. Ishiguro, AKARI/AcuA physical studies of the Cybele asteroid family, *Astron. J.* **143**, 141, 2012.
  - 3 D. Vokrouhlický, D. Nesvorný, Sun-grazing orbit of the unusual near-Earth object 2004 LG, *Astron. Astrophys.* **541**, 109, 2012.
  - 4 T. Grav, A.K. Mainzer, J. Bauer, J. Masiero, T. Spahr, R.S. McMillan, R. Walker, et al., WISE/NEOWISE observations of the Hilda population: Preliminary results, *Astrophys. J.* **744**, 197, 2012.
  - 5 R.A. Wittenmyer, J. Horner, C. G. Tinney, Resonances required: Dynamical analysis of the 24 Sex and HD 200964 planetary systems *Astrophys. J.* **761**, 165, 2012.
  - 6 V. Carruba, S. Aljbaae, D. Souami, Peculiar Euphrosyne, *Astrophys. J.* **792**, 46, 2014.
  - 7 D.L. Domingue, C.R. Chapman, R.M. Killen, et al., Mercury's weather-beaten surface: understanding mercury in the context of lunar and asteroidal space weathering studies, *Space Sci. Rev.* **181**, 121, 2014.
  - 8 A. Milani, A. Cellino, Z. Knežević, B. Novaković, F. Spoto, P. Paolicchi, Asteroid families classification: Exploiting very large datasets, *Icarus* **239**, 46, 2014.
  - 9 L.M. French, R.D. Stephens, D. Coley, L.H. Wasserman, J. Sieben, Rotation lightcurves of small jovian Trojan asteroids, *Icarus* **254**, 1, 2015.
  - 10 M. Čuk, A.A. Christou, D.P. Hamilton, Yarkovsky-driven spreading of the Eureka family of Mars Trojans, *Icarus* **252**, 339, 2015.
  - 11 A. Milani, Z. Knežević, F. Spoto, A. Cellino, B. Novakov'c, G. Tsirvoulis, On the ages of resonant, eroded and fossil asteroid families, *Icarus* **288**, 240, 2017.
- 15 J. Hanuš, J. Ďurech, **M. Brož et al.**, 2011, A study of asteroid pole-latitude distribution based on an extended set of shape models derived by the lightcurve inversion method, *Astron. Astrophys.* **530**, A134 (16pp). IF 4.479.

- 1 M.K. Shepard, A.W. Harris, P.A. Taylor, B.E. Clark, M. Ockert-Bell, M.C. Nolan, E.S. Howell, et al., Radar observations of Asteroids 64 Angelina and 69 Hesperia, *Icarus* **215**, 547, 2011.
- 2 A. Marciniak, P. Bartczak, T. Santana-Ros, T. Michałowski, P. Antonini, R. Behrend, C. Bembrock, et al., Photometry and models of selected main belt asteroids. IX. Introducing interactive service for asteroid models (ISAM), *Astron. Astrophys.* **545**, 131, 2012.
- 3 B. Carry, M. Kaasalainen, W.J. Merline, T.G. Müller, L. Jorda, J.D. Drummond, J. Berthier, et al., Shape modeling technique KOALA validated by ESA Rosetta at (21) Lutetia, *Planet. Space Sci.* **66**, 200, 2012.
- 4 D. Polishook, E.O. Ofek, A. Waszczak, S.R. Kulkarni, A. Gal-Yam, O. Aharonson, R. Laher, et al., Asteroid rotation periods from the Palomar Transient Factory survey, *Mon. Not. R. Astr. Soc.* **421**, 2094, 2012.
- 5 P. Pravec, P. Scheirich, D. Vokrouhlický, A.W. Harris, P. Kušnirák, K. Hornoch, D.P. Pray, et al., Binary asteroid population. 2. Anisotropic distribution of orbit poles of small, inner main-belt binaries, *Icarus* **218**, 125, 2012.
- 6 J. Hanuš, J. Ďurech, The potential of sparse photometric data in asteroid shape modeling, *Planet. Space Sci.* **73**, 75, 2012.
- 7 P. Paolicchi, A. Kryszczyńska, Spin vectors of asteroids: Updated statistical properties and open problems, *Planet. Space Sci.* **73**, 73, 2012.
- 8 A. Kryszczyńska, Do Slivan states exist in the Flora family? II. Fingerprints of the Yarkovsky and YORP effects, *Astron. Astrophys.* **551**, A102, 2013.
- 9 E.N. Slyuta, Physicomechanical properties and gravitational deformation of metallic asteroids, *Solar Sys. Res.* **47**, 109, 2013.
- 10 J. Hanuš, F. Marchis, J. Ďurech, Sizes of main-belt asteroids by combining shape models and Keck adaptive optics observations, *Icarus* **226**, 1045, 2013.
- 11 D. Polishook, Spin axes and shape models of asteroid pairs: Fingerprints of YORP and a path to the density of rubble piles, *Icarus* **241**, 79, 2014.
- 12 O. Mousis, R. Hueso, J.-P. Beaulieu, et al., Instrumental methods for professional and amateur collaborations in planetary astronomy, *Exp. Astron.*, 35, 2014.
- 13 E.N. Slyuta, Shape of small solar system bodies *Solar Sys. Res.* **48**, 217, 2014.
- 14 M.-J. Kim, Y.-J. Choi, H.-K. Moon, et al., Rotational properties of the Maria asteroid family, *Astron. J.* **147**, 56, 2014.
- 15 E. Bowell, D.A. Oszkiewicz, L.H. Wasserman, K. Muinonen, A. Penttilä, D.E. Trilling, Asteroid spin-axis longitudes from the Lowell Observatory database, *Met. Planet. Sci.* **49**, 95, 2014.
- 16 P. Harmanec, H. Božić, P. Mayer, P. Eenens, **M. Brož**, M. Wolf, S. Yang, M. Šlechta, D. Ruždjak, D. Sudar and H. Ak, 2011, V2368 Ophiuchi: an eclipsing and double-lined spectroscopic binary used as a photometric comparison star for U Ophiuchi, *Astron. Astrophys.* **531**, A49 (10pp). IF 4.479.
- 17 E.F. Guinan, P. Mayer, P. Harmanec, H. Božić, **M. Brož**, J. Nemravová, S. Engle, M. Šlechta, P. Zasche, M. Wolf, D. Korčáková and C. Johnston, 2012, Large distance of  $\epsilon$  Aurigae from interstellar absorption and reddening, *Astron. Astrophys.* **546**, A123 (15pp). IF 4.479.
  - 1 J. Budaj, Light-curve analysis of KIC 12557548b: an extrasolar planet with a comet-like tail, *Astron. Astrophys* **557**, 72, 2013.
  - 2 I.S. Potravnov, V.P. Grinin, Spectral observations of  $\epsilon$  Aurigae during the 2009–2011 eclipse, *Astron. Rep.* **57**, 991, 2013.
  - 3 K.G. Strassmeier, M. Weber, T. Granzer, L. Schanne, J. Bartus, I. Ilyin, Time-series high-resolution spectroscopy and photometry of  $\epsilon$  Aurigae from 2006–2013: Another brick in the wall, *Astron. N.* **335**, 904, 2014.
  - 4 C. Muthumariappan, M. Parthasarathy, R. Leadbeater, I.S. Potravnov, M. Appakutty, K. Jayakumar, A study of K I 7699 Å and related shell lines during the recent eclipse of  $\epsilon$  Aurigae, *Mon. Not. R. Astron. Soc.* **445**, 2884, 2014.
  - 5 R.L. Pearson, R.E. Stencel, Constraints from asymmetric heating: Investigating the  $\epsilon$  Aurigae disk, *Astrophys. J.* **798**, 11, 2015.
  - 6 B.K. Kloppenborg, R.E. Stencel, J. Monnier, et al. Interferometry of  $\epsilon$  Aurigae: Characterization of the asymmetric eclipsing disk, *Astrophys. J. Suppl.* **220**, 14, 2015.
- 18 J. Hanuš, J. Ďurech, **M. Brož et al.**, 2013, Asteroids' physical models from combined dense and sparse photometry and scaling of the YORP effect by the observed obliquity distribution, *Astron. Astrophys.* **551**, A67 (16pp). IF 4.479.
  - 1 J. Hanuš, F. Marchis, J. Ďurech, Sizes of main-belt asteroids by combining shape models and Keck adaptive optics observations, *Icarus* **226**, 1045, 2013.
  - 2 J. Berthier, F. Vachier, F. Marchis, J. Ďurech, B. Carry, Physical and dynamical properties of the main belt triple asteroid (87) Sylvia, *Icarus* **239**, 118, 2014.
- 19 **M. Brož**, A. Morbidelli, W.F. Bottke, J. Rozehnal, D. Vokrouhlický and D. Nesvorný, 2013, Constraining the cometary flux through the asteroid belt during the late heavy bombardment, *Astron. Astrophys.* **551**, A117 (16pp). IF 4.479.
  - 1 J.R. Masiero, A.K. Mainzer, J.M. Bauer, T. Grav, C.R. Nugent, and R. Stevenson, Asteroid family identification using the hierarchical clustering method and WISE/NEOWISE physical properties, *Astrophys. J.* **770**, 7, 2013.
  - 2 M.Y. Zolotov, Formation of brucite and cronstedtite-bearing mineral assemblages on Ceres *Icarus* **228**, 13, 2014.
  - 3 J.R. Masiero, T. Grav, A.K. Mainzer, C.R. Nugent, J.M. Bauer, R. Stevenson, S. Sonnett, Main-belt asteroids with WISE/NEOWISE: Near-infrared albedos, *Astrophys. J.* **791**, 121, 2014.

- 4 A. Milani, A. Cellino, Z. Knežević, B. Novaković, F. Spoto, P. Paolicchi, Asteroid families classification: Exploiting very large datasets, *Icarus* **239**, 46, 2014.
  - 5 M.J. Dykhuis, L. Molnar, S.J. Van Kooten, R. Greenberg, Defining the Flora family: Orbital properties, reflectance properties and age, *Icarus* **243**, 111, 2014.
  - 6 A.S. Rivkin, E. Asphaug, W.F. Bottke, The case of the missing Ceres family, *Icarus* **243**, 429, 2014.
  - 7 D.P. O'Brien, S. Marchi, A. Morbidelli, W.F. Bottke, P.W. Schenk, C.T. Russell, C.A. Raymond, Constraining the cratering chronology of Vesta, *Planet and Sp. Sci.* **103**, 131, 2014.
  - 8 W.F. Bottke, D. Vokrouhlický, K.J. Walsh, M. Delbo, P. Michel, D.S. Lauretta, H. Campins, H.C. Connolly, D. Scheeres, S.R. Chelsey, In search of the source of asteroid (101955) Bennu: Applications of the stochastic YORP model, *Icarus* **247**, 191, 2015.
  - 9 V. Carruba, D. Nesvorný, S. Aljbaae, M.E. Huaman, Dynamical evolution of the Cybele asteroids, *Mon. Not. R. Astron. Soc.* **451**, 244, 2015.
  - 10 F. Spoto, A. Milani, Z. Knežević, Asteroid family ages, *Icarus* **257**, 275, 2015.
  - 11 M.S. Gudipati, N. Abou Mrad, J. Blum, et al. Laboratory Studies Towards Understanding Comets, *Space Sci. Rev.* **79**, 2015.
- 20 **M. Brož** and A. Morbidelli, 2013, The Eos family halo, *Icarus* **223**, 844–849. IF 2.840.
- 1 V. Carruba, An analysis of the Hygiea asteroid family orbital region, *Mon. Not. R. Astron. Soc.* **431**, 3557, 2013.
  - 2 V. Carruba, R.C. Domingos, D. Nesvorný, F. Roig, M.E. Huaman, D. Souami, A multidomain approach to asteroid families' identification, *Mon. Not. R. Astron. Soc.* **433**, 2075, 2013.
  - 3 B. Novaković, H.H. Hsieh, A. Cellino, M. Micheli, M. Pedani, Discovery of a young asteroid cluster associated with P/2012 F5 (Gibbs), *Icarus* **231**, 300, 2014.
  - 4 J.R. Masiero, T. Grav, A.K. Mainzer, C.R. Nugent, J.M. Bauer, R. Stevenson, S. Sonnett, Main-belt asteroids with WISE/NEOWISE: Near-infrared albedos, *Astrophys. J.* **791**, 121, 2014.
  - 5 A. Milani, A. Cellino, Z. Knežević, B. Novaković, F. Spoto, P. Paolicchi, Asteroid families classification: Exploiting very large datasets, *Icarus* **239**, 46, 2014.
  - 6 V. Carruba, D. Nesvorný, Constraints on the original ejection velocity fields of asteroid families *Mon. Not. R. Astron. Soc.* **457**, 1332, 2016.
  - 7 V. Carruba, D. Nesvorný, S. Marchi, S. Aljbaae, Footprints of a possible Ceres asteroid paleo-family, *Mon. Not. R. Astron. Soc.* **458**, 1117, 2016.
  - 8 V. Carruba, D. Nesvorný, S. Aljbaae, Characterizing the original ejection velocity field of the Koronis family, *Icarus* **271**, 57, 2016.
  - 9 B.T. Bolin, M. Delbo, A. Morbidelli, K.J. Walsh, Yarkovsky V-shape identification of asteroid families, *Icarus* **282**, 290, 2017.
  - 10 D. Vokrouhlický, W.F. Bottke, D. Nesvorný, Forming the Flora family: Implications for the near-Earth asteroid population and large terrestrial planet impactors, *Astron. J.* **153**, 172, 2017.
- 21 J. Hanuš, **M. Brož**, J. Ďurech *et al.*, 2013, A spin vector distribution in asteroid families, *Astron. Astrophys.* **559**, A134 (19pp). IF 4.479.
- 1 D. Polishook, Spin axes and shape models of asteroid pairs: Fingerprints of YORP and a path to the density of rubble piles, *Icarus* **241**, 79, 2014.
  - 2 D. Vokrouhlický, W.F. Bottke, S.R. Chesley, D.J. Scheeres, T.S. Statler, 2015, The Yarkovsky and YORP effects, in: *Asteroids IV*, Eds. P. Michel, F.E. DeMeo and W.F. Bottke, (Arizona Univ. Press, Tucson).
- 22 H. Cibulková, **M. Brož** and P. Benavidez, 2014, A six-part collisional model of the main asteroid belt. *Icarus* **241**, 358–372. IF 2.840.
- 1 T. Henych, P. Pravec, Slowly increasing elongations of non-spherical asteroids caused by collisions, *Mon. Not. R. Astron. Soc.* **454**, 1704, 2015.
  - 2 B. Novakovic, G. Tsirvoulis, S. Maro, V. Dosovic, C. Maurel, Secular evolution of asteroid families: the role of Ceres, *IAU Symp.* **318**, 46, 2016.
  - 3 A. McNeill, A. Fitzsimmons, R. Jedicke, R. Wainscoat, L. Denneau, P. Vereš, E. Magnier *et al.*, Brightness variation distributions among main belt asteroids from sparse light-curve sampling with Pan-STARRS 1, *Mon. Not. R. Astron. Soc.* **459**, 2964, 2016.
- 23 P. Ševeček, **M. Brož**, J. Ďurech, D. Čapek, 2015, The thermal emission from boulders on (25143) Itokawa and general implications for the YORP effect. *Mon. Not. R. Astron. Soc.* **450**, 2104–2115. IF 5.226.
- 1 D. Vokrouhlický, W.F. Bottke, S.R. Chesley, D.J. Scheeres, T.S. Statler, 2015, The Yarkovsky and YORP effects. in: *Asteroids IV*, Eds. P. Michel, F.E. DeMeo and W.F. Bottke, (Arizona Univ. Press, Tucson).
  - 2 J. Ďurech, B. Carry, M. Delbo, M. Kaasalainen, M. Viikinkoski, 2015, Asteroid models from multiple data sources. in: *Asteroids IV*, Eds. P. Michel, F.E. DeMeo and W.F. Bottke, (Arizona Univ. Press, Tucson), 20pp.
  - 3 O. Golubov, Y. Kravets, Yu.N. Krugly, D.J. Scheeres, Physical models for the normal YORP and diurnal Yarkovsky effects, *Mon. Not. R. Astron. Soc.* **458**, 3977, 2016.
  - 4 D.J. Scheeres, S.G. Hesar, S. Tardivel, M. Hirabayashi, D. Farnocchia, J.W. McMahon, S.R. Chesley *et al.*, The geophysical environment of Bennu, *Icarus* **276**, 116, 2016.
- 24 O. Chrenko, **M. Brož**, D. Nesvorný, K. Tsiganis, D.K. Skoulidou, 2015, The origin of long-lived asteroids in the 2:1 mean-motion resonance with Jupiter. *Mon. Not. R. Astron. Soc.* **451**, 2399–2416.

IF 5.226.

- 1 D. Vokrouhlický, W.F. Bottke, D. Nesvorný, Capture of Trans-Neptunian Planetesimals in the Main Asteroid Belt, *Astron. J.* **152**, 39, 2016.
- 2 K.I. Antoniadou, D. Veras, Linking long-term planetary N-body simulations with periodic orbits: application to white dwarf pollution, *Mon. Not. R. Astron. Soc.* **463**, 4108, 2016.
- 3 A. Milani, Z. Knežević, F. Spoto, A. Cellino, B. Novakov'c, G. Tsirvoulis, On the ages of resonant, eroded and fossil asteroid families, *Icarus* **288**, 240, 2017.
- 25 J. Nemravová, P. Harmanec, **M. Brož**, D. Vokrouhlický, D. Mourard, C.A. Hummel *et al.*, 2016,  $\xi$  Tauri: a unique laboratory to study the dynamic interaction in a compact hierarchical quadruple system. *Astron. Astrophys.* **594**, A55 (47pp). IF 4.479.
  - 1 P. Zsche, J. Juryšek, J. Nemravová, R. Uhlář, P. Svoboda, M. Wolf, K. Hoňková *et al.*, V773 Cas, QS Aql, and BR Ind: Eclipsing Binaries as Parts of Multiple Systems, *Astron. J.* **153**, 36, 2017.
  - 2 S. Rappaport, A. Vanderburg, T. Borkovits, B. Kalomeni, J.P. Halpern, H. Ngo, G.N. Mace *et al.*, EPIC 220204960: A Quadruple Star System Containing Two Strongly Interacting Eclipsing Binaries, *Mon. Not. R. Astron. Soc.* **467**, 2160, 2017.
- 26 J. Rozehnal, **M. Brož**, D. Nesvorný, D.D. Durda, K. Walsh, D.C. Richardson, E. Asphaug, 2016, Hektor — an exceptional D-type family among Jovian Trojans. *Mon. Not. R. Astron. Soc.* **462**, 2319–2332. IF 5.226.
  - 1 A. Milani, Z. Knežević, F. Spoto, A. Cellino, B. Novakov'c, G. Tsirvoulis, On the ages of resonant, eroded and fossil asteroid families, *Icarus* **288**, 240, 2017.
- 27 **M. Brož**, 2017, An advanced N-body model for interacting multiple stellar systems. *Astrophys. J. Suppl. Ser.* **230**, 19, 10pp. IF 11.257.
- 28 O. Chrenko, **M. Brož**, M. Lambrechts, 2017, Eccentricity excitation and merging of planetary embryos heated by pebble accretion. *Astron. Astrophys.*, **606**, A114, 25pp. IF 4.479.
- 29 P. Ševeček, **M. Brož**, D. Nesvorný, B. Enke, D. Durda, K. Walsh, D.C. Richardson, 2017, SPH/N-body simulations of small ( $D = 10$  km) asteroidal breakups and improved parametric relations for Monte-Carlo collisional models. *Icarus*, **296**, 239–256. IF 2.840.
- 30 J. Ďurech, J. Hanuš, **M. Brož**, M. Lehký *et al.*, 2017, Shape models of asteroids based on lightcurve observations with BlueEye600 robotic observatory. *Icarus*, **304**, 101–109. IF 2.840.
- 31 P. Harmanec, **M. Brož**, P. Mayer, P. Zsche, L. Kotková, J.A. Nemravová, R.J. Dukes *et al.*, 2018, An improved model of the triple system V746 Cas with a bipolar magnetic field associated with the tertiary. *Astron. Astrophys.*, **609**, A5, 20pp. IF 4.479.
- 32 D. Mourard, **M. Brož**, J. Nemravová, P. Harmanec, J. Budaj, F. Baron, J. Monnier *et al.*, 2018, Physical properties of beta Lyrae A and its opaque accretion disk. *Astron. Astrophys.*, **618**, A112, 24pp. IF 4.479.
- 33 P. Vernazza, **M. Brož**, A. Drouard, J. Hanuš, M. Viikinkoski, M. Marsset, L. Jorda *et al.*, 2018, The impact crater at the origin of the Julia family detected with VLT/SPHERE? *Astron. Astrophys.*, **618**, A154, 16pp. IF 4.479.
- 34 **M. Brož**, O. Chrenko, D. Nesvorný, M. Lambrechts, 2018, Dynamics of multiple protoplanets embedded in gas/pebble disks and its dependence on  $\Sigma$  and  $\nu$  parameters. *Astron. Astrophys.*, **620**, A157, 15pp. IF 4.479.
- 35 O. Chrenko, **M. Brož**, D. Nesvorný, 2018, Binary planet formation by 3-body encounters in protoplanetary disks. *Astron. J.*, **868**, 2, 145, 14pp. IF 6.280.
- 36 **M. Brož**, A. Morbidelli, 2019, A study of 3-dimensional shapes of asteroid families with an application to Eos. *Icarus*, **317**, 434–441. IF 2.840.
- 37 J. Hanuš, M. Marsset, P. Vernazza, M. Viikinkoski, A. Drouard, **M. Brož**, B. Carry, 2019, The shape of (7) Iris as evidence of an ancient large impact? *Astron. Astrophys.*, **624**, A121, 17pp. IF 4.479.
- 38 P. Koubský, P. Harmanec, **M. Brož**, L. Kotková, S. Yang, H. Božić, D. Sudar *et al.*, 2019, Properties and nature of Be stars. 31. The binary nature, light variability, physical elements, and emission-line changes of HD 81357. *Astron. Astrophys.*, **629**, A105, 14pp. IF 4.479.
- 39 P. Ševeček, **M. Brož**, M. Jutzi, 2019, Impacts into rotating targets: angular momentum draining and efficient formation of synthetic families. *Astron. Astrophys.*, **629**, A122, 12pp. IF 4.479.
- 40 P. Vernazza, L. Jorda, P. Ševeček, **M. Brož**, M. Viikinkoski, J. Hanuš, B. Carry *et al.*, 2020, A basin-free spherical shape as an outcome of a giant impact on asteroid Hygiea. *Nat. Astron.*, **4**, 136–141. IF

10.500.

- 41 M. Marsset, **M. Brož**, P. Vernazza, A. Drouard, J. Castillo–Rogez, J. Hanuš, M. Viikinkoski *et al.*, 2020, The violent collisional history of aqueously evolved (2) Pallas. *Nat. Astron.*, **4**, 569–576. IF 10.500.
- 42 B. Yang, J. Hanuš, B. Carry, P. Vernazza, **M. Brož**, F. Vachier, N. Rambaux *et al.*, 2020, Binary asteroid (31) Euphrosyne: ice-rich and nearly spherical. *Astron. Astrophys.*, **641**, A80, 9pp. IF 5.636.
- 43 B. Yang, J. Hanuš, **M. Brož**, O. Chrenko, M. Willman, P. Ševeček, J. Masiero, H. Kaluna, 2020, Physical and dynamical characterization of the Euphrosyne asteroid family. *Astron. Astrophys.*, **643**, A38, 9pp. IF 5.636.
- 44 T.R. Holt, D. Vokrouhlický, D. Nesvorný, **M. Brož**, J. Horner, 2020, A pair of Jovian Trojans at the L4 Lagrange point. *Mon. Not. R. Astron. Soc.*, **499**, 3, 3630–3649, IF 5.356.
- 45 M. Ferrais, P. Vernazza, L. Jorda, N. Rambaux, J. Hanuš, B. Carry, F. Marchis, M. Marsset, M. Viikinkoski, **M. Brož et al.**, 2020, Asteroid (16) Psyche’s primordial shape: A possible Jacobi ellipsoid. *Astron. Astrophys.*, **638**, L15, 9pp. IF 5.636.
- 46 G. Dudziński, E. Podlewska-Gaca, P. Bartczak, S. Benseguane, M. Ferrais, L. Jorda, J. Hanuš, P. Vernazza, N. Rambaux, B. Carry, F. Marchis, M. Marsset, M. Viikinkoski, **M. Brož et al.**, 2020, Volume uncertainty of (7) Iris shape models from disc-resolved images. *Mon. Not. R. Astron. Soc.*, **499**, 4545. IF 5.536.
- 47 **M. Brož**, D. Mourard, J. Budaj, P. Harmanec, H. Schmitt, I. Tallon-Bosc, D. Bonneau, H. Božić, D. Gies, M. Šlechta, 2021, Optically thin circumstellar medium in the  $\beta$  Lyr A system. *Astron. Astrophys.*, **645**, A51, 19pp. IF 5.636.
- 48 F. Marchis, L. Jorda, P. Vernazza, **M. Brož**, J. Hanuš, M. Ferrais, F. Vachier *et al.*, 2021, (216) Kleopatra, a low density critically rotating M-type asteroid. *Astron. Astrophys.*, **653**, A57, 25pp. IF 5.802.
- 49 **M. Brož**, F. Marchis, L. Jorda, P. Vernazza, J. Hanuš, M. Ferrais, F. Vachier *et al.*, 2021, An advanced multipole model for (216) Kleopatra triple system. *Astron. Astrophys.*, **653**, A56, 9pp. IF 5.802.
- 50 P. Vernazza, M. Ferrais, L. Jorda, J. Hanuš, B. Carry, M. Marsset, **M. Brož**, R. Fetick, M. Viikinkoski, F. Marchis, F. Vachier *et al.*, 2021, VLT/SPHERE imaging survey of the largest main-belt asteroids: Final results and synthesis. *Astron. Astrophys.*, **654**, A56, 48pp. IF 5.802.
- 51 D. Vokrouhlický, **M. Brož**, B. Novaković, D. Nesvorný, 2021, The young Hobson family: Possible binary parent body and low-velocity dispersal. *Astron. Astrophys.*, **654**, A75, 17pp. IF 5.802.
- 52 **M. Brož**, O. Chrenko, D. Nesvorný, N. Dauphas, 2021, Early terrestrial planet formation by torque-driven convergent migration of planetary embryos. *Nat. Astron.* **5**, 898–902. IF 11.518.
- 1 S.N. Raymond, A terrestrial convergence, *Nat. Astron.* **5**, 875–876, 2021.
- 2 S.R. DeSouza, F. Roig, D. Nesvorný, Can a jumping-Jupiter trigger the Moon’s formation impact? *Mon. Not. R. Astron. Soc.* **507**, 539, 2021.
- 3 R. Helled, A. Morbidelli, Planet Formation, in *ExoFrontiers: Big questions in exoplanetary science*, ed. N. Madhusudhan, IOP Publishing, 2021.
- 4 M.S. Clement, S.N. Raymond, J.E. Chambers, Mercury as the Relic of Earth and Venus Outward Migration, *Astrophys. J.* **923**, L16.
- 53 **M. Brož**, J. Ďurech, B. Carry, F. Vachier, F. Marchis, J. Hanuš, L. Jorda, P. Vernazza, D. Vokrouhlický, M. Walterová, R. Behrend, 2022, Observed tidal evolution of Kleopatra’s outer satellite. *Astron. Astrophys.* **657**, A76, 10pp. IF 5.802.
- 54 J. Rozehnal, **M. Brož**, D. Nesvorný, K.J. Walsh, D.D. Durda, D.C. Richardson, E. Asphaug, 2022, SPH simulations of high-speed collisions between asteroids and comets. *Icarus* **383**, 115064. IF 3.508.
- 55 M. Ferrais, L. Jorda, P. Vernazza, B. Carry, **M. Brož**, N. Rambaux, J. Hanuš, *et al.*, 2022, M-type (22) Kalliope: a tiny Mercury. *Astron. Astrophys.* **662**, A71, 18pp. IF 5.802.
- 56 **M. Brož**, M. Ferrais, P. Vernazza, P. Ševeček, M. Jutzi, 2022, Discovery of an asteroid family linked to (22) Kalliope and its moon Linus. *Astron. Astrophys.* **664**, A69, 13pp. IF 5.802.
- 57 P. Mayer, P. Harmanec, P. Zasche, **M. Brož**, R. Catalan-Hurtado, B.N. Barlow, W. Frondorf, M. Wolf, *et al.*, 2022, Towards a consistent model of the hot quadruple system HD 93206 = QZ Carinae I. Observations and their initial analyses. *Astron. Astrophys.* **666**, A23, 19pp. IF 5.802.
- 58 **M. Brož**, P. Harmanec, P. Zasche, R. Catalan-Hurtado, B.N. Barlow, W. Frondorf, M. Wolf, *et al.*,

- 2022, Towards a consistent model of the hot quadruple system HD 93206 = QZ Carinae II. N-body model. *Astron. Astrophys.* **666**, A24, 12pp. IF 5.802.
- 59 M. Marsset, **M. Brož**, J. Vermersch, N. Rambaux, M. Ferrais, M. Viikinkoski, J. Hanuš, *et al.*, 2023, The equilibrium shape of (65) Cybele: primordial or relic of a large impact? *Astron. Astrophys.* **670**, A52, 18pp. IF 5.802.
- 60 A. Oplištilová, P. Mayer, P. Harmanec, **M. Brož**, A. Pigulski, H. Božić, P. Zasche, *et al.*, 2023, Spectrum of the secondary component and new orbital elements of the massive triple star  $\delta$  Ori A. *Astron. Astrophys.* **672**, A31, 22pp. IF 5.802.
- 61 P. Zasche, T. Borkovits, R. Jayaraman, S. A. Rappaport, **M. Brož**, D. Vokrouhlický, I. B. Bíró, *et al.*, 2023, V994 Her: A unique triply eclipsing sextuple star system. *Mon. Not. R. Astron. Soc.*, **520**, 2, 3127–3142. IF 5.235.
- 62 **M. Brož**, J. Ďurech, M. Ferrais, H.-J. Lee, M.-J. Kim, D.-G. Roh, H.-S. Yim, E. Jehin, A. Burdanov, J. de Wit P. Fatka, J. Hanuš, B. Carry, 2023, 2021 occultations and transits of Linus orbiting (22) Kalliope: I. Polygonal and ‘cliptracing’ algorithms. *Astron. Astrophys.*, **676**, A60, 17pp. IF 6.240.
- 63 D. Nesvorný, R. Deienno, W. F. Bottke, R. Jedicke, S. Naidu, S. R. Chesley, P. W. Chodas, M. Granvik, D. Vokrouhlický, **M. Brož**, A. Morbidelli, E. Christensen, F. C. Shelly, B. T. Bolin, 2023, NEOMOD: A new orbital distribution model for near-Earth objects. *Astron. J.*, **166**, 2, 55, 30pp. IF 5.491.
- 64 M. Fuksa, **M. Brož**, J. Hanuš, M. Ferrais, P. Fatka, P. Vernazza, 2023, An advanced multipole model of the (130) Elektra quadruple system. *Astron. Astrophys.*, **677**, A189, 19pp. IF 6.240.

### C3. Práce publikované v recenzovaných sbornících vydaných v zahraničí

- 1 **M. Brož** and D. Vokrouhlický, 2002, The peculiar orbit of Vysheslavia: further hints for its Yarkovsky driven origin, in: *Dynamics of Natural and Artificial Celestial Bodies*, Eds. H. Pretka-Ziomek, E. Wnuk, P.K. Seidemann, D. Richardson. Kluwer Academic Publishers, Dordrecht, p. 307.
- 2 D. Vokrouhlický and **M. Brož**, 2002, Interaction of the Yarkovsky-drifting orbits with weak resonances: Numerical evidence and challenges, in: *Modern Celestial Mechanics: from Theory to Applications*, Eds. A. Celletti, S. Ferraz-Mello and J. Henrard, Kluwer Academic Publishers, Dordrecht, p. 467.
- 3 **M. Brož**, D. Vokrouhlický, F. Roig, D. Nesvorný, W.F. Bottke and A. Morbidelli, 2005, The population of asteroids in the 2:1 mean motion resonance with Jupiter revised, in: *Dynamics of Populations of Planetary Systems*, Eds. Z. Knežević and A. Milani, Cambridge University Press, p. 179.
- 4 D. Vokrouhlický, **M. Brož**, W.F. Bottke, D. Nesvorný and A. Morbidelli, 2005, Non-gravitational perturbations and the evolution of the asteroid main belt, in: *Dynamics of Populations of Planetary Systems*, Eds. Z. Knežević and A. Milani, Cambridge University Press, p. 145.
- 5 **M. Brož**, D. Vokrouhlický, A. Morbidelli, D. Nesvorný, W.F. Bottke, F. Roig and D. Čapek, 2005, Non-gravitational forces acting on small bodies, in: *Asteroids, Comets and Meteors*, Eds. D. Lazzaro, S. Ferraz-Mello and J. Fernandez, Cambridge University Press, p. 351.
  - 1 A.V. Pomazan, N.V. Maigurova, Optical observations of selected asteroids with measurable Yarkovsky effect, *Advances in Astronomy and Space Physics* **3**, 113, 2013.
  - 2 D. Perna, M.A. Barucci, M. Fulchignoni, The near-Earth objects and their potential threat to our planet, *Astron. Astrophys. Rev.* **21**, 65, 2013.
- 6 P. Mayer, H. Drechsel and **M. Brož**, 2012, Peculiarities in the spectrum of the early-type system MY Ser, in: *From Interacting Binaries to Exoplanets: Essential Modeling Tools*, Eds. M.T. Richards and I. Hubený, IAU Symp. **282**, p. 311.
  - 1 C. Ibanoglu, O. Cakirli, E. Sipah, MY Serpentis: a high-mass triple system in the Ser OB2 association, *Mon. Not. R. Astron. Soc.* **436**, 750, 2013.
- 7 J.A. Nemravová, P. Harmanec, J. Bencheikh, C.T. Bolton, H. Božić, **M. Brož**, S. Engle, J. Grunhut, E.F. Guinan, C.A. Hummel, D. Korčáková, P. Koubský, P. Mayer, D. Mourard, J. Ribeiro, M. Šlechta, D. Vokrouhlický, V. Votruba, M. Wolf, P. Zasche, Chara/Vega Team and Npoi Team, 2013, An unusual quadruple system  $\xi$  Tauri, Central European Astrophysical Bulletin **37**, p. 207–216.
- 8 P. Vernazza, L. Jorda, B. Carry, J. Hanuš, M. Marsset, M. Viikinkoski, F. Marchis, **M. Brož**, A. Drouard, T. Fusco, R. Fétick, M. Ferrais, Harissa Team, 2020, SPHERE Unveils the True Face of the Largest Main Belt Asteroids. *Messenger*, **179**, 13–16.



## D. Učební texty

- 1 **M. Brož**, M. Nosek, J. Trebichavský, D. Pecinová (Eds.), 2004, Sluneční hodiny na pevných stanovištích. Čechy, Morava Slezsko a Slovensko, Academia, Praha (400pp), ISBN 8020012044.
- 2 P. Harmanec and **M. Brož**, 2011, Stavba a vývoj hvězd, Matfyzpress, Praha (312pp), ISBN 97880-73781651.
- 3 **M. Brož** and M. Šolc, 2013, Fyzika sluneční soustavy, Matfyzpress, Praha (422pp), ISBN 978807378-2368.
- 4 **M. Brož** and M. Wolf, 2017, Astronomická měření, Matfyzpress, Praha (343pp), ISBN 9788073783549.
- 5 **M. Brož**, 2020, Hydrodynamika v astronomii, (257pp).<sup>1</sup>

## E1. Ostatní odborné práce — abstrakta a postery

- 1 **M. Brož** and D. Vokrouhlický, 1998(Aug), Yarkovsky effects as a source of mobility for the asteroid fragments, presented at IAU Colloquium 173, *Evolution and source regions of asteroids and comets*, Tatranská Lomnica.
- 2 **M. Brož**, D. Vokrouhlický, P. Farinella and W.F. Bottke, 1999(Oct), Capture of Yarkovsky-driven asteroid orbits into higher-order main-belt resonances, *BAAS* **31**, 1111.
- 3 D. Vokrouhlický, **M. Brož**, P. Farinella and Z. Knežević, 1999(Oct), Yarkovsky-driven leakage of Koronis family members and the case of 2953 Vyshevlavia, *BAAS* **31**, 1111.
  - 1 P. Michel, W. Benz, P. Tanga and D. Richardson, Collisions and gravitational reaccumulation: Forming asteroid families and satellites, *Science* **294**, 1696, 2001.
- 4 **M. Brož** and D. Vokrouhlický, 2000(Jul), Evolution of the Yarkovsky-driven orbits of meteoroids, in: *The Restless Universe*, presented at the NATO Advanced Study Institute, Blair Atholl.
- 5 D. Vokrouhlický, **M. Brož**, A. Morbidelli, W.F. Bottke and D. Nesvorný, 2001(Jun), Long-term dynamical diffusion in asteroid families via Yarkovsky effect, poster presented at *Asteroids 2001* conference, Palermo.
  - 1 P. Michel, W. Benz, P. Tanga and D. Richardson, Collisions and gravitational reaccumulation: Forming asteroid families and satellites, *Science* **294**, 1696, 2001.
  - 2 S.F. Dermott *et al.*, Asteroidal dust, in: *Asteroids III*, Eds. W.F. Bottke, A. Cellino, P. Paolicchi and R. Binzel, (Arizona Univ. Press, 2003), p. 423.
- 6 W.F. Bottke, D. Vokrouhlický, **M. Brož**, D. Nesvorný and A. Morbidelli, 2001(Oct), Dynamical Spreading of the Koronis Family via the Yarkovsky Effect, *BAAS* **33**, 1136.
- 7 W.F. Bottke, D. Vokrouhlický, A. Morbidelli, D. Nesvorný and **M. Brož**, 2002(Aug), The consequences of the Yarkovsky effect: The legacy of Paolo Farinella, invited talk at *Asteroids, Comets and Meteors*, Berlin.
- 8 D. Vokrouhlický, **M. Brož**, A. Morbidelli, W.F. Bottke, D. Nesvorný, D. Lazzaro and A. Rivkin, 2002(Aug), Yarkovsky footprints in the Eos family, presented at *Asteroids, Comets and Meteors*, Berlin.
- 9 **M. Brož**, D. Vokrouhlický, A. Morbidelli, D. Nesvorný and F. Roig, 2002(Aug), A connection of the 2:1 resonance asteroids with the Themis family?, poster at *Asteroids, Comets and Meteors*, Berlin.
- 10 **M. Brož**, 2002(Aug), A faster version of the SWIFT-MVS integrator and implementation of the Yarkovsky force, poster at *Asteroids, Comets and Meteors*, Berlin.
- 11 **M. Brož**, D. Vokrouhlický, F. Roig, A. Morbidelli and D. Nesvorný, 2004(Apr), The Yarkovsky delivery of unstable asteroids inside the 2/1 mean motion resonance with Jupiter, *BAAS* **36**, 857.
- 12 **M. Brož**, D. Vokrouhlický, A. Morbidelli, D. Nesvorný, W.F. Bottke, F. Roig and D. Čapek, 2005 (Aug), Non-gravitational forces acting on small bodies, invited talk at *Asteroids, Comets and Meteors* (IAU Symposium 229), Búzios.
- 13 **M. Brož**, D. Vokrouhlický, F. Roig, D. Nesvorný, W.F. Bottke and A. Morbidelli, 2005(Aug), Elusive Zhongguos and Griquas — long-lived asteroids inside the J2/1 resonance, poster at *Asteroids, Comets and Meteors* (IAU Symposium 229), Búzios.

---

<sup>1</sup><https://sirrah.troja.mff.cuni.cz/~mira/hydrodynamika/>

- 14 **M. Brož**, D. Vokrouhlický, W.F. Bottke, D. Nesvorný and A. Morbidelli, 2006(Oct), The long-term evolution of J2/1, J3/2 and J4/3 resonant asteroids during planetary migration and beyond, talk at *American Astronomical Society, DPS meeting*, Pasadena.
- 15 **M. Brož**, D. Vokrouhlický, 2008(Apr), Asteroid clusters in major mean motion resonances with Jupiter, talk at *American Astronomical Society, DDA meeting*, Boulder.
- 16 **M. Brož**, D. Vokrouhlický, 2008(Oct), Resonant asteroid families — a wealthy source of information on planetary migration, talk at *American Astronomical Society, DPS meeting*, Ithaca.
- 17 **M. Brož**, D. Vokrouhlický, 2009(Aug), On the dynamics of Trojans and outer Main Belt resonant families, talk at *IAU General Assembly*, Rio de Janeiro.
- 18 **M. Brož**, D. Vokrouhlický, 2010(Oct), Hilda Collisional Family Probably Affected by Planetary Migration, talk at *American Astronomical Society, DPS meeting*, Pasadena.
- 19 **M. Brož**, A. Morbidelli, W.F. Bottke, J. Rozehnal, D. Vokrouhlický, D. Nesvorný, 2011(Oct), Asteroid families versus the Late Heavy Bombardment, talk at *American Astronomical Society, EPSC meeting*, Nantes.
- 20 J. Hanuš, J. Ďurech, **M. Brož**, *et al.*, 2011(Oct), Spin-vector distribution of asteroids — the role of the YORP thermal effect, talk at *American Astronomical Society, EPSC meeting*, Nantes.
- 21 **M. Brož**, H. Cibulková, M. Řehák, 2012(Oct), A collisional model of the "pristine zone" of the Main Asteroid Belt and the dynamics of LHB families located there, poster at *American Astronomical Society, DPS meeting*, Reno.
- 22 **M. Brož**, H. Cibulková, 2013(Oct), A new 6-part collisional model of the Main Asteroid Belt, talk at *American Astronomical Society, DPS meeting*, Denver.
- 23 J. Hanuš, J. Ďurech, **M. Brož**, 2013(Oct), Asteroid models from sparse photometry and spin vectors in asteroid families, talk at *American Astronomical Society, DPS meeting*, Denver.
- 24 J. Rozehnal, **M. Brož**, 2013(Oct), Jovian Trojans: Orbital structures versus the WISE data, talk at *American Astronomical Society, DPS meeting*, Denver.
- 25 **M. Brož**, J. Ďurech, J. Hanuš, M. Lehký, 2014(Jul), Asteroid families spin and shape models to be supported by the ProjectSoft robotic observatory, poster at *Asteroids, Comets, Meteors*, Helsinki.
- 26 J. Rozehnal, **M. Brož**, 2014(Jul), Long-term evolution of asteroid families among Jovian Trojans, poster at *Asteroids, Comets, Meteors*, Helsinki.
- 27 W. Bottke, **M. Brož**, D. O'Brien, A. Campo Bagatin, A. Morbidelli, 2014(Jul), Exploring the collisional evolution of the asteroid belt, invited talk at *Asteroids, Comets, Meteors*, Helsinki.
- 28 **M. Brož**, J. Ďurech, J. Hanuš, M. Lehký, 2014(Nov), Distributions of spin/shape parameters of asteroid families and targeted photometry by ProjectSoft robotic observatory, poster at *American Astronomical Society, DPS meeting*, Tucson.
- 29 O. Chrenko, **M. Brož**, D. Nesvorný, 2014(Nov), The origin of the long-lived asteroids in the 2:1 mean-motion resonance with Jupiter, talk at *American Astronomical Society, DPS meeting*, Tucson.
- 30 **M. Brož**, 2015(Feb), Simulations of asteroid families: knowns and unknowns, invited talk at *Stardust ITN local training workshop: Collisions in the Solar system*, Belgrade.
- 31 O. Chrenko, **M. Brož**, 2015(Nov), Planetesimals embedded in a gaseous disc vs mean-motion resonances, poster at *American Astronomical Society, DPS meeting*, Washington.
- 32 **M. Brož**, 2016(Oct), Dynamics of asteroid family halos, talk at *American Astronomical Society, DPS meeting*, Pasadena.
- 33 O. Chrenko, **M. Brož**, M. Lambrechts, 2017(Oct), Evolution of migrating protoplanets heated by pebble accretion, talk at *American Astronomical Society, DPS meeting*, Provo.
- 34 **M. Brož**, O. Chrenko, 2017(Oct), Gap opening after merger events of 3-Earth-mass protoplanets, poster at *American Astronomical Society, DPS meeting*, Provo.
- 35 P. Ševeček, **M. Brož**, 2017(Oct), Collisional disruptions of rotating targets, talk at *American Astronomical Society, DPS meeting*, Provo.
- 36 J. Rozehnal, **M. Brož**, 2017(Oct), Recent impact on (4709) Ennomos? poster at *American Astronomical Society, DPS meeting*, Provo.

## H. Disertační práce

- 1 **M. Brož**, 1999, Orbitální vývoj asteroidálních fragmentů způsobený vlivem gravitace planet a tepelnými efekty, Diploma Thesis, Charles University (81pp).
  - 1 D. Vokrouhlický, P. Farinella, The Yarkovsky Seasonal Effect on Asteroidal Fragments: A Nonlinearized Theory for Spherical Bodies, *Astrophys. J.* **118**, 3049, 1999.
  - 2 V. Carruba, J.A. Burns, W. Bottke, D. Nesvorný, Orbital evolution of the Gefion and Adeona asteroid families: close encounters with massive asteroids and the Yarkovsky effect, *Icarus* **162**, 308, 2003.
  - 3 V. Carruba, Dynamics of asteroid families and irregular satellites of jovian planets, PhD Dissertation, Cornell University, 2004.
  - 4 D. Nesvorný, W.F. Bottke, Detection of the Yarkovsky effect for main-belt asteroids, *Icarus* **170**, 324, 2004.
  - 5 V. Carruba, T.A. Michtchenko, F. Roig, S. Ferraz-Mello, D. Nesvorný, On the V-type asteroids outside the Vesta family. I. Interplay of nonlinear secular resonances and the Yarkovsky effect: the cases of 956 Elisa and 809 Lundia, *Astron. Astrophys.* **441**, 819, 2005.
  - 6 V. Carruba, F. Roig, T.A. Michtchenko, S. Ferraz-Mello, D. Nesvorný, Modeling close encounters with massive asteroids: a Markovian approach. An application to the Vesta family, *Astron. Astrophys.* **465**, 315, 2007.
  - 7 V. Carruba, T.A. Michtchenko, D. Lazzaro, On the V-type asteroids outside the Vesta family. II. Is (21238) 1995 WV7 a fragment of the long-lost basaltic crust of (15) Eunomia? *Astron. Astrophys.* **473**, 967, 2007.
  - 8 V. Carruba, Dynamical erosion of asteroid groups in the region of the Phocaea family, *Mon. Not. R. Astron. Soc.* **403**, 1834, 2010.
  - 9 V. Carruba, The stable archipelago in the region of the Pallas and Hansa dynamical families, *Mon. Not. R. Astron. Soc.* **408**, 580, 2010.
  - 10 V. Carruba, A. Morbidelli, On the first v6 anti-aligned librating asteroid family of Tina, *Mon. Not. R. Astron. Soc.* **412**, 2040, 2011.
  - 11 V. Carruba, J.F. Machuca, On the Emmenthal distribution of highly inclined asteroids, *Mon. Not. R. Astron. Soc.* **418**, 1102, 2011.
  - 12 J.F. Machuca, V. Carruba, Secular dynamics and family identification among highly inclined asteroids in the Euphrosyne region *Mon. Not. R. Astron. Soc.* **420**, 1779, 2012.
  - 13 V. Carruba, S. Aljbaae, D. Souami, Peculiar Euphrosyne, *Astrophys. J.* **792**, 46, 2014.
- 2 **M. Brož**, 2006, Yarkovsky effect and the Dynamics of the Solar System, PhD Thesis, Charles University (184pp).
  - 1 W.F. Bottke, D. Vokrouhlický, D. Nesvorný, An asteroid breakup 160Myr ago as the probable source of the K/T impactor, *Nature* **449**, 48, 2007.
  - 2 B.D. Warner, A.W. Harris, D. Vokrouhlický, D. Nesvorný, W.F. Bottke, Analysis of the Hungaria asteroid population, *Icarus* **204**, 172, 2009.
  - 3 D. Vokrouhlický, J. Ďurech, T. Michalowski, *et al.*, Datura family: the 2009 update, *Astron. Astrophys.* **507**, 495, 2009.
  - 4 D. Vokrouhlický, D. Nesvorný, The common roots of asteroids (6070) Rheinland and (54827) 2001 NQ8, *Astron. J.* **137**, 111, 2009.
  - 5 B. Novaković, K. Tsiganis, Z. Knežević, Chaotic transport and chronology of complex asteroid families, *Mon. Not. R. Astron. Soc.* **402**, 2, 1263, 2010.
  - 6 B. Novaković, Portrait of Theobalda as a young asteroid family, *Mon. Not. R. Astron. Soc.* **407**, 3, 1477, 2010.
  - 7 D. Vokrouhlický, D. Nesvorný, W.F. Bottke, A. Morbidelli, Collisionally born family about 87 Sylvia, *Astron. J.* **139**, 2148, 2010.
  - 8 F.M. McEachern, M. Čuk, S.T. Stewart, Dynamical evolution of the Hungaria asteroids, *Icarus* **210**, 644, 2010.
  - 9 B. Rozitis, S.F. Green, The influence of rough surface thermal-infrared beaming on the Yarkovsky and YORP effects, *Mon. Not. R. Astron. Soc.* **423**, 1, 367, 2012.
  - 10 R. Stevenson, E.A. Kramer, J.M. Bauer, J.R. Masiero, A.K. Mainzer, Characterization of Active Main Belt Object P/2012 F5 (Gibbs): A Possible Impacted Asteroid *Astrophys. J.* **759**, 142, 2012.
  - 11 M. Mueller, Surface properties of asteroids from mid-infrared observations and thermophysical modeling, PhD dissertation, Freie Universitaet Berlin, 2007.
  - 12 J.R. Masiero, A.K. Mainzer, T. Grav, J.M. Bauer, R. Jedicke, Revising the age for the Baptistina asteroid family using WISE/NEOWISE data, *Astrophys. J.* **759**, 14, 2012.
  - 13 B. Novaković, Orbital and Dynamical Characteristics of Small Bodies in the Region of Inner Planets, Asteroids: Prospective Energy and Material Resources, Edited by Viorel Badescu. ISBN 9783642392436. Berlin: Springer, 2013, p. 45-79.
  - 14 M. Čuk, B.J. Gladman, D. Nesvorný, Hungaria asteroid family as the source of aubrite meteorites, *Icarus* **239**, 154, 2014.
- 3 **M. Brož**, 2015, Per asteroides ad astra, Habilitation Thesis, Charles University (218pp).

## I. Ostatní publikace — popularizační práce

- 1 **M. Brož**, 2000, Yarkovského efekt a dynamika sluneční soustavy, *Astropis* 1/2000, p. 6–11.

- 2 **M. Brož**, 2000, Impaktní krátery (1) — Morasko, *Povětroň* 4/2000, p. 7.<sup>2</sup>
- 3 **M. Brož**, 2000, Impaktní krátery (2) — Ries, *Povětroň* 5/2000, p. 6.
- 4 **M. Brož**, 2001, (253) Mathilde a (433) Eros pod lupou NEARu, *Povětroň* 2/2001, p. 3.
- 5 **M. Brož**, 2001, NEAR phones home (o přistání na Erosu), *Povětroň* 3/2001, p. 4.
- 6 **M. Brož**, 2001, Asteroidy na začátku 3. tisíciletí (1), *Povětroň* 5/2001, p. 4.
- 7 **M. Brož**, 2002, 10 otázek a odpovědí (2), *Povětroň* 1/2002, p. 22.
- 8 **M. Brož**, P. Scheirich, 2002, Asteroidy na počátku 3. tisíciletí (2), *Povětroň* 2/2002, p. 8.
- 9 J. Ďurech, **M. Brož**, 2002, Určení průměrů planet prostým okem?!, *Povětroň* 3/2002, p. 6.
- 10 **M. Brož**, 2002, 10 otázek a odpovědí (3), *Povětroň* 4/2002, p. 4.
- 11 **M. Brož**, 2002, Technické řešení dalekohledu JST, *Povětroň* 5/2002, p. 8.
- 12 **M. Brož**, M. Lehký, 2002, Pozorovací program JST, *Povětroň* 5/2002, p. 7.
- 13 **M. Brož**, 2003, Meteority v Museum für Naturkunde, Berlin, *Povětroň* 1/2003, p. 7.
- 14 **M. Brož**, 2003, 10 otázek a odpovědí (4), *Povětroň* 3/2003, p. 14.
- 15 **M. Brož**, 2003, Impaktní kráter Steinheim, *Povětroň* S1/2003, p. 3.
- 16 **M. Brož**, 2004, Dynamická astronomie v roce 2004, *Povětroň* 3/2004, p. 4.
- 17 **M. Brož**, 2004, Astronomický kurz (1) — Protoplanetární disk, *Povětroň* 4/2004, p. 4.
- 18 **M. Brož**, 2004, Film Sluneční soustava 2003, *Povětroň* 4/2004, p. 16.<sup>3</sup>
- 19 **M. Brož**, 2004, Astronomický kurz (2) — Vznik planet, *Povětroň* 5/2004, p. 12.
- 20 **M. Brož**, M. Cholasta, J. Kujal, R. Lacko, 2005, Planetární stezka, *Povětroň* S2/2004, p. 2–24.<sup>4</sup>
- 21 **M. Brož**, 2005, Co na planetární stezce nenajdete?, *Povětroň* 3/2005, p. 4.
- 22 **M. Brož**, M. Šolc, J. Kándl, 2006, Gnómonická rekonstrukce slunečních hodin na Révovém nádvoří Klementina, *Povětroň* 2/2006, p. 4.
- 23 **M. Brož**, 2006, Astronomický kurz (3) — Planetesimály a embrya, *Povětroň* 2/2006, p. 14.
- 24 **M. Brož**, K. Zubatý, J. Svoboda, 2006, Model Valles Marineris, *Povětroň* 3/2006, p. 4.
- 25 **M. Brož**, 2006, Sluneční hodiny (14) — Konstrukce analematických hodin, *Povětroň* 5/2006, p. 4.
- 26 **M. Brož**, K. Zubatý, J. Svoboda, 2006, Energetika kráteru Tycho, *Povětroň* S1/2006, p. 33.
- 27 **M. Brož**, 2007, Astronomický kurz (4) — Soustavy souřadnic, *Povětroň* 2/2007, p. 4.
- 28 **M. Brož**, 2007, Astronomický kurz (5) — Otočná mapa oblohy, *Povětroň* 3/2007, p. 4.
- 29 **M. Brož**, V. Samohrdová, J. Pospíšil, 2007, Válcové výškové hodiny na Malém náměstí, *Povětroň* 5/2007, p. 18.
- 30 **M. Brož**, K. Zubatý, V. Plašil, J. Zima, M. Cholasta, M. Brožová, 2007, Galaktická stezka, *Povětroň* S1/2007, p. 2–20.<sup>5</sup>
- 31 **M. Brož**, 2008, Astronomický kurz (6) — Měsíce a slapy, *Povětroň* 2/2008, p. 4.
- 32 **M. Brož**, 2008, Teorie signálu a šumu, *Povětroň* S1/2008, p. 4.
- 33 **M. Brož**, 2008, Astronomický kurz (6) — Problém dvou těles, *Povětroň* 4/2008, p. 4.
- 34 **M. Brož**, 2008, Astronomický kurz (7) — Problém tří těles, *Povětroň* 5/2008, p. 4.
- 35 **M. Brož**, 2008, Astronomický kurz (8) — Negravitační zrychlení, *Povětroň* 6/2008, p. 14.
- 36 **M. Brož**, 2009, Astronomický kurz (9) — Planetky, *Povětroň* 2/2009, p. 4.
- 37 **M. Brož**, 2009, Astronomický kurz (10) — Rodiny planetek, *Povětroň* 5/2009, p. 4.
- 38 **M. Brož**, M. Šolc, M. Boček, 2009, Meteority — obecný přehled, *Povětroň* S1/2009, p. 3–23.
- 39 L. Trojanová, **M. Brož**, M. Krejčí, 2010, Gravitační trychtýř, *Povětroň* 1/2010, p. 4–12.
- 40 **M. Brož**, 2010, Teorie relativity, *Povětroň* 5/2010, p. 3–22.
- 41 **M. Brož**, M. Krejčí, L. Trojanová, K. Zubatý, 2010, Expozice na hvězdárně, *Povětroň* S6/2011, p. 3–24.

<sup>2</sup><http://www.astrohk.cz/ashk/povetron/>

<sup>3</sup><http://www.astrohk.cz/ss2003/>

<sup>4</sup>[http://www.astrohk.cz/planetarni\\_stezka/](http://www.astrohk.cz/planetarni_stezka/)

<sup>5</sup>[http://www.astrohk.cz/galakticka\\_stezka/](http://www.astrohk.cz/galakticka_stezka/)

- 42 M. Brož, 2011, Projekt Digitálního planetária v Hradci Králové, *Povětroň* 4/2011, p. 3.
- 43 M. Brož, 2013, Bouřlivý vznik planet, *Astropis* S/2013, p. 4–7.
- 44 M. Brož, 2014, Kosmologie homogenního izotropního vesmíru, *Povětroň* 2/2014, p. 3–20.
- 45 M. Brož, M. Mařák, 2014, Expozice v planetáriu, *Povětroň* S4/2014, p. 2–24.
- 46 M. Brož, J. Hanuš, J. Ďurech, M. Lehký, M. Cholasta, 2015, Robotická observatoř Blue Eye 600 *Povětroň* 2/2015, p. 3–15.
- 47 M. Brož, 2015, Hydrodynamika protoplanetárního disku, *Povětroň* 3/2015, p. 3–20.<sup>6</sup>
- 48 M. Brož, L. Trojanová, R. Brož, 2015, Cesta k nekonečnu (scénář), *Povětroň* 4/2015, p. 3–6.<sup>7</sup>
- 49 M. Brož, 2015, Dynamické účinky záření v nebeské mechanice, *Čs. čas. pro fyziku* 5/2015, p. 292–294.
- 50 M. Brož, 2016, Optický interferometr, *Povětroň* 2/2016, p. 3–10.
- 51 M. Brož, 2016, Gravitační vlny, *Povětroň* 3/2016, p. 3–12.
- 52 M. Brož, 2016, Oko, *Povětroň* 4/2016, p. 11–16.
- 53 M. Brož, V. Brož, 2017, ELT (zatím z Lega), *Povětroň* 2/2017, p. 3–8.
- 54 M. Brož, 2017, Přenos záření, *Povětroň* 2/2017, p. 9–30.
- 55 M. Brož, O. Chrenko, 2017, Horká stopa v protoplanetárním disku, *Povětroň* 4/2017, p. 3–15.
- 56 M. Brož, 2018, K rekonstrukci Pražského orloje, *Povětroň* 1/2018, p. 3–8.
- 57 M. Brož, R. Brož, 2018, Základy astronomie na základní škole, *Povětroň* S2/2018, p. 2–16.
- 58 M. Brož, 2018, Co jsme věděli (a nevěděli) před 100 lety, *Povětroň* 3/2018, p. 3–22.
- 59 M. Brož, M. Krejčí, M. Mařák, 2018, Nová otočná mapka oblohy, *Povětroň* 3/2018, p. 23–25.
- 60 M. Brož, 2018, Podobné orloje v Lundu a Doberanu, *Povětroň* 3/2018, p. 25–28.
- 61 M. Brož, J. Hanuš, 2018, (89) Julia pozorována adaptivní optikou, *Povětroň* 4/2018, p. 3–10.
- 62 M. Brož, 2019, Astronomicky správné řešení astrolábu Pražského orloje, *Povětroň* 1/2019, p. 3–9.
- 63 M. Brož, 2019, Podobný orloj v Bernu, *Povětroň* 1/2019, p. 10–11.
- 64 M. Brož, 2019, Geochemie a radiometrie, *Povětroň* 2/2019, p. 3–16.
- 65 M. Brož, 2019, Modré Slunce, *Povětroň* 3/2019, p. 3–7.
- 66 M. Brož, 2019, II, *Povětroň* 4/2019, p. 3–8.
- 67 M. Brož, 2019, Dalekohled pro horizont událostí, *Povětroň* 4/2019, p. 9–15.
- 68 M. Brož, 2019, Nobelova cena za exoplanety, *Povětroň* 4/2019, p. 16–24.
- 69 M. Brož, 2020, Obloha na dlani, *Povětroň* 3/2020, p. 3–8.
- 70 M. Brož, 2020, Dopplerova tomografie, *Povětroň* 4/2020, p. 3–10.
- 71 M. Brož, 2020, Skleníkový jev a globální oteplování, *Povětroň* 4/2020, p. 16–24.
- 72 M. Brož, 2021, Miroslav Brož: Bowenovo reakční schéma, *Povětroň* 2/2021, p. 11–14.

Miroslav Brož

---

<sup>6</sup><http://www.astrohk.cz/ss2015/>

<sup>7</sup><http://www.astrohk.cz/infinity/>