

1. *Mean-motion resonances*

- Delisle, J.-B., Correia, A C M., Laskar, J.: Stability of resonant configurations during the migration of planets and constraints on disk-planet interactions, *A&A*, 579 (2015)
- Borderies, N., Goldreich, : *CM&DA* 32, 127 (1984)
- Henrard, J., Lemaître, A.: *CM&DA* 30, 197 (1983)
- Lemaître, A.: *CM&DA* 32, 109 (1984)
- Lemaître A.: Resonances: Models and Captures, Dynamics of Small Solar System Bodies and Exoplanets, Eds Souchay and Dvorak, *Lecture Notes in Physics*, 790, 1-62 (2010)
- Nesvorný, D., Morbidelli, A.: An Analytic Model of Three-Body Mean Motion Resonances, *CM&DA*, 71, 243-271 (1998)
- Verheylewegen, E., Lemaître A.: The 3:1 mean motion resonance between Miranda and the inner Uranian satellites, Cressida and Desdemona, *CM&DA*, 119, 283-299 (2014)

2. *Secondary, Kozai and secular resonances*

- Kozai, Y.: *Astron J* 67, 591 (1963)
- Milani, A., Knezevic, Z.: Asteroid proper elements and secular resonances, *Icarus*, 98, 211-232 (1992)
- Moons, M., Morbidelli, A.: *CM&DA* 56, 273 (1993)
- Moons, M., Morbidelli, A.: *CM&DA* 57, 99 (1993)
- Moons, M., Morbidelli, A.: *Icarus* 114, 33 (1995)
- Morbidelli, A., Moons, M.: *Icarus*, 102, 316 (1993)
- Morbidelli, A., Moons, M.: *Icarus*, 103, 99 (1993)
- Morbidelli, A., Moons, M.: *Icarus* 115, 60 (1995)
- Morbidelli, A., Henrard, J.: *CM&DA* 51, 131 (1991)
- Morbidelli, A., Henrard, J.: *CM&DA* 51, 169 (1991)

3. *Adiabatic invariant and captures*

- Henrard J.: Capture into resonance - an extension of the use of adiabatic invariants., 27, 3-22 (1982)
- Henrard, J.: *Dynam Report 2* (book), 117 (1993)

- Jancart S., Lemaître A.: Dissipative forces and external resonances, CM&DA, 81, 75-80 (2001)
- Lemaître, A.: CM&DA 34, 329 (1984)
- Lemaître, A., Henrard, J.: CM&DA 43, 91 (1988)
- Lemaître, A., Dubru, : CM&DA 52, 57 (1991)

4. *Non gravitational forces*

- Beaugé, C.: CM&DA 60, 225 (1994)
- Beauge, C., Ferraz-Mello, S.: Capture in exterior mean-motion resonances due to Poynting-Robertson drag, Icarus 110, 239-260 (1994)
- Bottke, W F., Vokrouhlický, D., Broz, M., Nesvorný, D., Morbidelli, A.: Dynamical Spreading of Asteroid Families by the Yarkovsky Effect Science, 294, 1693-1696 (2001)
- Gomes, R S.: Resonance Trapping and Evolution of Particles Subject to Poynting-Robertson Drag: Adiabatic and Non-Adiabatic Approaches, CM&DA, 61, 97-113 (1995)
- Gomes, R., Levison, H F., Tsiganis, K., Morbidelli, A.: Origin of the cataclysmic Late Heavy Bombardment period of the terrestrial planets, Nature, 435, 466-469 (2005)
- Levison, H. F., Bottke, W. F., Gounelle, M., Morbidelli, A., Nesvorný, D., Tsiganis, K.: Contamination of the asteroid belt by primordial trans-Neptunian objects, Nature, 460, 364-366 (2009)
- Milani, A., Gronchi, G.-F.: Theory of Orbital Determination, Cambridge University Press, Cambridge, UK, (2010)
- Sicardy, B., Beaugé, C., Ferraz-Mello, S., Lazzaro, D., Roques, F.: Capture of grains into resonances through Poynting-Robertson drag, CM&DA 57, 373-390 (1993)
- Vokrouhlický, D., Farinella, P.: Orbital evolution of asteroidal fragments into the nu_6 resonance via Yarkovsky effects, A&A, 335, 351-362 (1998)
- Vokrouhlický, D., Farinella, P.: The Yarkovsky Seasonal Effect on Asteroidal Fragments: A Nonlinearized Theory for Spherical Bodies: The Astronomical Journal, 118, 3049-3060 (1999)

5. *Mercury spin-orbit resonance*

- Deprit, A., *Am J Phys* 35, 424 (1967)
- D’Hoedt S., Lemaître A.: The Spin-Orbit Resonant Rotation of Mercury: A Two Degree of Freedom Hamiltonian Model, *CM&DA*, 89, 267-283 (2004)
- D’Hoedt, S., Lemaître, A.: *CM&DA* 89, 267 (2004)
- D’Hoedt, S., Lemaître, A.: In: Kurtz, D.W (ed.) *Transits of Venus: New Views of the Solar System and Galaxy: IAU Colloquium 196*, pp 263–270 Cambridge University Press, Cambridge (2006)
- Dufey, J., Lemaître, A Rambaux, N.: *CM&DA* 101, 141 (2008)
- Lemaître, A., D’Hoedt, S., Rambaux, N.: *CM&DA* 95, 213 (2006)
- Peale, S.J.: *Icarus* 178, 4 (2005)
- Peale, S.J.: *Icarus* 181, 338 (2006)
- Peale, S.J.: *Astron J* 79, 722 (1974)
- Rambaux, N., Lemaître, A., D’Hoedt, S.: *Astron Astrophys* 470, 741 (2007)
- Sansottera M., Lhotka Ch., Lemaître A.: Effective resonant stability of Mercury, *Monthly Notices of the Royal Astronomical Society*, 452, 4145-4152 (2015)

6. *Space debris dynamics*

- Aksnes, K.: Short-period and long-period perturbations of a spherical satellite due to direct solar radiation, , **13**, 89-104 (1976)
- Breiter, S.: Lunisolar Resonances Revisited, *CM&DA*, **81**, 81-91 (2001)
- Breiter, S., Wytrzyszczak, I., Melendo, B.: Long-term predictability of orbits around the geosynchronous altitude, *Adv Space Res.*, **35**, 1313–1317 (2005)
- Casanova, D., Petit, A., Lemaître, A.: Long-term evolution of space debris under the J₂ effect, the solar radiation pressure and the solar and lunar perturbations, *CM&DA*, **123**, 223-238 (2015)
- Celletti, A., Galeş, C.: On the Dynamics of Space Debris: 1:1 and 2:1 Resonances, *Journal of Non Linear Science*, **24**, 1231-1262 (2014)
- Celletti, A., Galeş, C.: Dynamical investigation of minor resonances for space debris, *CM&DA*, **123**, 203-222 (2015)

- Celletti, A., Galeş, C.: A study of the main resonances outside the geostationary ring, *Advances in Space Research*, **56**, 388-405 (2015)
- Celletti, A., Galeş, C.: A study of the lunisolar secular resonance $2\dot{\omega} + \dot{\Omega} = 0$, *Frontiers in Astronomy and Space Sciences*, **3**, 11 pages (2016)
- Celletti, A., Galeş, C., Pucacco, G., Rosengren, A. J: Analytical development of the lunisolar disturbing function and the critical inclination secular resonance, *CM&DA*, **127**, 259-283 (2017)
- Celletti, A., Efthymiopoulos, C., Gachet, F., Galeş, C., Pucacco: Dynamical models and the onset of chaos in space debris, *International Journal of Non Linear Mechanics*, **90**, 147-163 (2017)
- Chao, C.C.: Analytical Investigation of GEO Debris with High Area-to-mass Ratio, AIAA paper No AIAA-2006-6514, Presented at the 2006 AIAA/AAS Astrodynamics Specialist Conference, Keystone, Colorado (2006)
- Daquin J., Rosengren, A. J., Alessi, E. M., Deleflie, F., Valsecchi, G. B., Rossi, A.: The dynamical structure of the MEO region: long-term stability, chaos, and transport, *CM&DA*, **124**, 335-366 (2016)
- Ferraz-Mello, S.: Analytical study of the Earth's shadowing effects on satellite orbits, *CM*, **5**, 80-101 (1972)
- Gachet, F., Celletti, A., Pucacco, G., Efthymiopoulos, C.: Geostationary secular dynamics revisited: application to high area-to-mass ratio objects, *CM&DA*, **128**, 149-181 ((2017)
- Kaula, W.M.: Theory of satellite geodesy, Blaisdell Publishing Company, Waltam, MA/Toronto/London, (1966)
- Lemaître, A., Delsate, N., Valk, S.: A web of secondary resonances for large A/m geostationary debris, *CM&DA*, **104**, 383-402 (2009)
- McMahan, J., Scheeres, D.: Secular orbit variation due to solar radiation effects: a detailed model for BYORP, *CM&DA*, **106**, 261-300 (2010)
- Petit, A., Lemaitre, A.: The impact of the atmospheric model and of the space weather data on the dynamics of clouds of space debris, *Adv Space Res.*, **57**, 2245-2258 (2016)
- Rosengren, A. J., Scheeres, D. J.: Long-term dynamics of high area-to-mass ratio objects in high-Earth orbit, *Adv Space Res.*, **52**, 1545-1560 (2013)

- Rosengren, A. J., Daquin, J., Tsiganis, K., Alessi, E. M., Deleffie, F., Rossi, A., Valsecchi, G. B.: Galileo disposal strategy: stability, chaos and predictability, *MNRAS*, **464**, 4063-4076 (2017)
- Rossi, A.: Resonant dynamics of Medium Earth Orbits: space debris issues, *Celest Mech., Dyn Astr.*, **100**, 267–286 (2008)
- Schildknecht T., Musci R., Ploner M., Beutler, G., Flury, W., Kuusela J., Leon Cruz, J., de Fatima Dominguez Palmero, L.: Optical observations of space debris in GEO and in highly-eccentric orbits, *Adv Space Res.*, **34**, 901–911 (2004)
- Schildknecht, T., Musci, R., Flohrer, T.: Properties of the high area-to-mass ratio space debris population at high altitudes *Adv Space Res.*, **41**, 1039–1045 (2007)
- Schildknecht, T., Früh, C., Herzog, A., Hinze, J., Vananti, A.: AIUB Efforts to Survey, Track, and Characterize Small-Size Objects at High Altitudes, *Proceedings of 2010 AMOS Technical Conference*, 14-17 September, Maui, Hawaii, USA (2010)
- Valk, S., Lemaitre, A., Anselmo, L.: Analytical and semi-analytical investigations of geosynchronous space debris with high area-to-mass ratios, *Adv Space Res.*, **41**, 1077-1090 (2008)
- Valk, S., Lemaître, A., Deleffie, F.: Semi-analytical theory of mean orbital motion for geosynchronous space debris, under gravitational influence *Adv Space Res.*, **43**, 1070-1082 (2009)
- Valk, S., Lemaitre, A., Semi-analytical investigations of high area-to-mass ratio geosynchronous space debris including Earth’s shadowing effects, *Adv Space Res.*, **42**, 1429-1443 (2008)
- Valk, S Delsate, N., Lemaitre, A., Carletti, T.: Global dynamics of high area-to-mass ratios GEO space debris by means of the MEGNO indicator *Adv Space Res.*, **43**, 1509–1526 (2009)

7. *Chaos*

- Laskar, J.: Frequency analysis of a dynamical system, *CM&DA*, **56**, 191-196 (1993)
- Cincotta, M., Simó, C.: Simple tools to study global dynamics in non-axisymmetric galactic potentials, *A&A, Supplement* **147**, 205–228 (2000)

- Cincotta, M., Giordano, C. M., Simó, C.: Phase space structure of multi-dimensional systems by means of the mean exponential growth factor of nearby orbits, *Physica D*, **182**, 151–178 (2003)
- Froeschlé, C., Lega, E., Gonczi, R.: Fast Lyapunov Indicators Application to Asteroidal Motion CM&DA, **67**, 41-62 (1997)

8. *Symplecticity*

- Delsate, N., Compère, A.: NIMASTEP: a software to modelize, study and analyze the dynamics of various small objects orbiting specific bodies, *A&A*, **540**, A120 (2012)
- Duncan, M., Levison, H., and Lee, M.: A Multiple Time Step Symplectic Algorithm for Integrating Close Encounters, *Astron J.*, 116:2067–2077 (1998)
- Hubaux, Ch., Lemaitre, A., Delsate, N., Carletti, T.: Symplectic integration of space debris motion considering several Earth’s shadowing models, *Adv Space Res.*, **49**, 1472-1486 (2012)
- Hubaux, Ch., Lemaitre, A.: The impact of Earth’s shadow on the long-term evolution of space debris, *CM&DA*, **116**, 79-95 (2013)
- Laskar, J., Robutel, : High order symplectic integrators for perturbed Hamiltonian systems, *CM&DA*, **80**, 39-62 (2001)
- Yoshida, H.: Construction of higher order symplectic integrators *Phys Lett A*, 150:262–268 (1990)