

Refereed Articles: 206 / 33,368 citations – h-factor=58 (source ADS, August 2025)
 Invited Talks in International Conferences: 35
 Refereed Proceedings: 17
 Refereed Book Chapter: 3
 Non-Refereed Proceedings and Talks: >200
 Invited Seminars: 32

In the following list of articles in the peer reviewed journals, 32% of the them are co-authored with PhD students, post-docs, and engineers that I have supervised or co-supervised. To identify them, the following symbols are used: ♦Master student, *PhD student, ★Post-doc, ●Engineer

Articles in peer reviewed journals

- [1] *Ciocco, M., Roskosz, M., Doisneau, B., Deloule, D., Fiquet, G., **Delbo, M.**, Gounelle, M., 2025. A collisional history of the L chondrite parent bodies. *Nature Astronomy*. In press. <https://doi.org/10.1038/s41550-025-02615-6>
- [2] Müller, T., Conversi, L., Licandro, J., **Delbo, M.**, Fitzsimmons, A., Muinonen, K., Popescu, M., Tanga, P., Moissl, R., 2025. Preimpact Detection of Chelyabinsk-Type Objects in the Thermal Infrared: Possibilities and Limitations. *Advances in Astronomy* 2025, 3207732.
- [3] ★Beniyama J., Bolin B. T., Sergeev A. V., **Delbo M.**, Abron L.-M., Belyakov M., Sekiguchi T., Takagi S. 2025 Multi-epoch spectrophotometric characterization of the mini-moon 2024 PT₅ in the visible and near-infrared *Astronomy and Astrophysics*, 700, A183.
- [4] Sheward D., **Delbo M.**, Avdellidou C., Cook A., Lognonné P. 2025 Detection of small fresh craters on the Moon: Linking fresh craters to their lunar impact flash events *Astronomy and Astrophysics*, 699, L3.
- [5] Avdellidou C., *Bhat U., Bujdoso K., **Delbo M.**, Marsset M., Vernazza P. 2025 Kalliope sings rock and metal *Monthly Notices of the Royal Astronomical Society*, 539, 3534-3550
- [6] Bolin B. T., Hanuš J., Denneau L., Bonamico R., Abron L.-M., **Delbo M.**, Ďurech J., Jedicke R., Alcorn L. Y., Cikota A., Panda S., Reggiani H. 2025 The Discovery and Characterization of Earth-crossing Asteroid 2024 YR₄ *The Astrophysical Journal*, 984, L25
- [7] Bolin B. T., Fremling C., Belyakov M., ★Beniyama J., **Delbo M.**, Jedicke R., Wong I., Abron L.-M., Noll K. S., Stephens A. W. 2025 Keck and Gemini Characterization of Hayabusa2# Rendezvous Target 1998 KY₂₆ *The Astronomical Journal*, 169, 303
- [8] ★Beniyama J., Müller T. G., **Delbo M.**, Pantin E., Hainaut O. R., Micheli M., Marsset M. 2025 Size Constraint on Hayabusa2 Extended Mission Rendezvous Target 1998 KY₂₆ via VLT/VISIR Nondetection *The Astronomical Journal*, 169, 264
- [9] *Zhou, W.-H., Michel, P., **Delbo, M.**, Wang, W., Wang, B. Y., Ďurech, J., Hanuš. 2024., Confined tumbling state as the origin of the excess of slowly rotating asteroids. *Nature Astronomy*. 9, 493-500.
- [10] *Athanasopoulos, D., Hanuš, Avdellidou, C., van Belle, G., Ferrero, A., Bonamico, R., Gazeas, K., **Delbo, M.**, Rivet, J.P., Apostolovska, G., Todorovic, N., Novakovic, B., Bebekovska, E.V., Romanyuk, Y., Bolin, B.T., Zhou, W., Agrusa, H., 2024. Spin states of X-complex asteroids in the inner Main Belt. *Astronomy and Astrophysics*. 690. doi:10.1051/0004-6361/202451363
- [11] Fornasier, S., Dotto, E., Panuzzo, P., **Delbo, M.** and 7 colleagues 2024. Size, albedo, and rotational period of the Hayabusa2# target (98943) 2001 CC21. *Astronomy and Astrophysics* 688. doi:10.1051/0004-6361/202450447
- [12] Nesvorný, D. and 11 colleagues including **Delbo, M.** 2024. NEOMOD 3: The debiased size distribution of Near Earth Objects. *Icarus* 417. doi:10.1016/j.icarus.2024.116110

- [13] ★Zhou, W.-H. and 6 colleagues including **Delbo, M.** 2024. The Yarkovsky Effect on the Long-term Evolution of Binary Asteroids. *The Astrophysical Journal* 968. doi:10.3847/2041-8213/ad4f7f
- [14] ★David G., **Delbo M.**, Barucci M. A., Merlin F., Fraeman A. A., Fornasier S., Poggiali G., Beck P., Leyrat C. 2024 Analysis of a thermal correction method for infrared spectroscopy: preparation for the future observations of the Martian moons Phobos and Deimos with the MIRS instrument *Monthly Notices of the Royal Astronomical Society*, 534, 3265-3276
- [15] Gaia Collaboration and 415 colleagues including **Delbo, M.** 2024. Discovery of a dormant 33 solar-mass black hole in pre-release Gaia astrometry. *Astronomy and Astrophysics* 686. doi:10.1051/0004-6361/202449763
- [16] Gaia Collaboration and 400 colleagues including **Delbo, M.** 2024. Gaia Focused Product Release: A catalogue of sources around quasars to search for strongly lensed quasars. *Astronomy and Astrophysics* 685. doi:10.1051/0004-6361/202347273
- [17] Walsh K. J., Ballouz R.-L., Bottke W. F., Avdellidou C., Connolly H. C., **Delbo M.**, DellaGiustina D. N., Jawin E. R., McCoy T., Michel P., Morota T., Nolan M. C., Schwartz S. R., Sugita S., Lauretta D. S. 2024 Numerical simulations suggest asteroids (101955) Bennu and (162173) Ryugu are likely second or later generation rubble piles. *Nature Communications*, 15, 5653
- [18] ★Avdellidou, C., **Delbo, M.**, Nesvorný, D., Walsh, K. J., Morbidelli, A. 2024. Dating the Solar System's giant planet orbital instability using enstatite meteorites. *Science* 384, 348–352. doi:10.1126/science.adg8092.
- [19] Ryan, A. J. and 19 colleagues including **Delbo, M.** 2024. Rocks with Extremely Low Thermal Inertia at the OSIRIS-REx Sample Site on Asteroid Bennu. *The Planetary Science Journal* 5. doi:10.3847/PSJ/ad2dff
- [20] ★Sheward, D. and 9 colleagues 2024. Extending lunar impact flash observations into the day-time with short-wave infrared. *Monthly Notices of the Royal Astronomical Society* 529, 3828–3837. doi:10.1093/mnras/stad2707
- [21] Schirner, L., Otto, K. A., **Delbo, M.**, Matz, K.-D., Sasaki, S., Sugita, S. 2024. Aligned fractures on asteroid Ryugu as an indicator of thermal fracturing. *Astronomy and Astrophysics* 684. doi:10.1051/0004-6361/202348404
- [22] ★Galinier, M., **Delbo, M.**, Avdellidou, C., Galluccio, L. 2024. Discovery of the first olivine-dominated A-type asteroid family. *Astronomy and Astrophysics* 683. doi:10.1051/0004-6361/202349057
- [23] ★Bourdelle de Micas, J. and 6 colleagues including **Delbo, M.** 2024. Compositional characterization of a primordial S-type asteroid family of the inner main belt. *Astronomy and Astrophysics* 682. doi:10.1051/0004-6361/202347391
- [24] Bolin, B. T. and 14 colleagues 2024 including **Delbo, M.** Palomar discovery and initial characterization of naked-eye long-period comet C/2022 E3 (ZTF). *Monthly Notices of the Royal Astronomical Society* 527, L42–L46. doi:10.1093/mnras/sl4d139
- [25] Gaia Collaboration and 404 colleagues including **Delbo, M.** 2023. Gaia Focused Product Release: Spatial distribution of two diffuse interstellar bands. *Astronomy and Astrophysics* 680. doi:10.1051/0004-6361/202347103
- [26] Gaia Collaboration and 405 colleagues including **Delbo, M.** 2023. Gaia Focused Product Release: Asteroid orbital solution. Properties and assessment. *Astronomy and Astrophysics* 680. doi:10.1051/0004-6361/202347270
- [27] Gaia Collaboration and 405 colleagues including **Delbo, M.** 2023. Gaia Focused Product Release: Radial velocity time series of long-period variables. *Astronomy and Astrophysics* 680. doi:10.1051/0004-6361/202347287
- [28] Gaia Collaboration and 402 colleagues including **Delbo, M.** 2023. Gaia Focused Product Release: Sources from Service Interface Function image analysis. Half a million new sources in omega Centauri. *Astronomy and Astrophysics* 680. doi:10.1051/0004-6361/202347203

- [29] **Delbo, M.** ★Avdellidou, C. Walsh, K. J. 2023. Gaia view of primitive inner-belt asteroid families: Searching for the origins of asteroids Bennu and Ryugu. *Astronomy & Astrophysics*. DOI: 10.48550/arXiv.2308.13828
- [30] ♦Ferrone, S. **Delbo, M.** and 5 colleagues. 2023. Identification of a 4.3 billion year old asteroid family and planetesimal population in the Inner Main Belt. *Astronomy & Astrophysics*. DOI: 10.1051/0004-6361/202245594
- [31] Clark, B. E. and 55 colleagues including **Delbo, M.** 2023. Overview of the search for signs of space weathering on the low-albedo asteroid (101955) Bennu. *Icarus* 400, 115563.
- [32] Gaia Collaboration and 455 colleagues including **Delbo, M.** 2023. Gaia Data Release 3: Summary of the content and survey properties. *Astronomy & Astrophysics* 674, A1.
- [33] Gaia Collaboration and 444 colleagues including **Delbo, M.** 2023. Gaia Data Release 3: The Galaxy in your preferred colours: Synthetic photometry from Gaia low-resolution spectra. *Astronomy & Astrophysics* 674, A33.
- [34] Gaia Collaboration and 449 colleagues including **Delbo, M.** 2023. Gaia Data Release 3: Stellar multiplicity, a teaser for the hidden treasure. *Astronomy & Astrophysics* 674, A34.
- [35] Gaia Collaboration, ●Galluccio L., **Delbo M.**, and 444 colleagues. 2023. Gaia Data Release 3: Reflectance spectra of Solar System small bodies. *Astronomy & Astrophysics* 674, A35.
- [36] Gaia Collaboration, and 447 colleagues including **Delbo, M.** 2023. Gaia Data Release 3: Pulsations in main sequence OBAF-type stars. *Astronomy & Astrophysics* 674, A36.
- [37] Gaia Collaboration and 450 colleagues including **Delbo, M.** 2023. Gaia Data Release 3: Mapping the asymmetric disc of the Milky Way. *Astronomy & Astrophysics* 674, A37.
- [38] Gaia Collaboration and 449 colleagues including **Delbo, M.** 2023. Gaia Data Release 3: Chemical cartography of the Milky Way. *Astronomy & Astrophysics* 674, A38.
- [39] Gaia Collaboration and 447 colleagues including **Delbo, M.** 2023. Gaia Data Release 3: A Golden Sample of Astrophysical Parameters. *Astronomy & Astrophysics* 674, A39.
- [40] Gaia Collaboration and 446 colleagues including **Delbo, M.** 2023. Gaia Data Release 3: Exploring and mapping the diffuse interstellar band at 862 nm. *Astronomy & Astrophysics* 674, A40.
- [41] Gaia Collaboration and 446 colleagues including **Delbo, M.** 2023. Gaia Data Release 3: The extragalactic content. *Astronomy & Astrophysics* 674, A41.
- [42] Tanga P., Pauwels T., Mignard F., Muinonen K., Cellino A., David P., Hestroffer D., Spoto F., Berthier J., Guiraud J., Roux W., Carry B., **Delbo M.**, Dell Oro A., Fouron C., ●Galluccio L., Jonckheere A., Klioner S. A., Lefustec Y., Liberato L., Ordénovic C., Oreshina-Slezak I., Penttilä A., Pailler F., Panem C., Petit J.-M., Portell J., Poujoulet E., Thuillot W., Van Hemelryck E., Burlacu A., Lasne Y., Managa S. 2023. Data Release 3: the Solar System survey. *Astronomy & Astrophysics* 674, A12.
- [43] Bolin B. T., Fremling C., Morbidelli A., Noll K. S., van Roestel J., Deibert E. K., **Delbo M.**, Gimeno G., Heo J.-E., Lisse C. M., Seccul T., Suh H. 2023. Keck, Gemini, and Palomar 200-inch visible photometry of red and very-red Neptunian Trojans. *Monthly Notices of the Royal Astronomical Society* 521, L29–L33.
- [44] Tiaut-Ruano F., Tatsumi E., Tanga P., de León J., **Delbo M.**, De Angeli F., Morate D., Licandro J., Galluccio L. 2023. Asteroids reflectance from Gaia DR3: Artificial reddening at near-UV wavelengths. *Astronomy and Astrophysics* 669, L14.
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- [46] Hasegawa S., DeMeo F. E., Marsset M., Hanuš J., ★Avdellidou C., **Delbo M.**, Bus S. J., Hanayama H., Horiuchi T., Takir D., Jehin E., Ferrais M., Geem J., Im M., Seo J., Bach Y. P., Jin S., Ishiguro M., Kuroda D., Binzel R. P., Nakamura A. M., Yang B., Vernazza P. 2022. Spectral Evolution of Dark Asteroid Surfaces Induced by Space Weathering over a Decade. *The Astrophysical Journal* 939, L9.
- [47] Gaia Collaboration, and 450 colleagues including **Delbo, M.** 2022. Gaia Early Data Release 3. The celestial reference frame (Gaia-CRF3). *Astronomy & Astrophysics* 667, A148.
- [48] ★Athanasopoulos D., Hanuš J., Avdellidou C., Bonamico R., **Delbo M.**, Conjat M., Ferrero A., Gazeas K., Rivet J. P., Sioulas N., van Belle G., Antonini P., Audejean M., Behrend R., Bernasconi L., Brinsfield J. W., Brouillard S., Brunetto L., Fauvaud M., Fauvaud S., Gonzalez R., Higgins D., Holoien T. W.-S., Kober G., Koff R. A., Kryszczyńska A., Livet F., Marciniak A., Oey J., Pejcha O., Rives J. J., Roy R. 2022. Asteroid spin-states of a 4 Gyr collisional family. *Astronomy & Astrophysics* 666, A116.
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- [50] ★Bourdelle de Micas J., Fornasier S., Avdellidou C., **Delbo M.**, van Belle G., Ochner P., Grundy W., Moskovitz N. 2022. Composition of inner main-belt planetesimals. *Astronomy & Astrophysics* 665, A83.
- [51] ★Sheward D., Avdellidou C., Cook A., Sefton-Nash E., **Delbo M.**, Cantarella B., Zanatta L. 2022. PyNAPLE: Lunar Surface Impact Crater Detection. *Monthly Notices of the Royal Astronomical Society* 514, 4320-4328.
- [52] Walsh K. J., Ballouz R.-L., Jawin E. R., ★Avdellidou C., Barnouin O. S., Bennett C. A., Bierhaus E. B., Bos B. J., Cambioni S., Connolly H. C., **Delbo M.**, DellaGiustina D. N., DeMartini J., Emery J. P., Golish D. R., Haas P. C., Hergenrother C. W., Ma H., Michel P., Nolan M. C., Olds R., Rozitis B., Richardson D. C., Rizk B., Ryan A. J., Sánchez P., Scheeres D. J., Schwartz S. R., Selznick S. H., Zhang Y., Lauretta D. S. 2022. Near-zero cohesion and loose packing of Bennu's near subsurface revealed by spacecraft contact. *Science Advances* 8, eabm6229.
- [53] Walsh K. J., Bierhaus E. B., Lauretta D. S., Nolan M. C., Ballouz R.-L., Bennett C. A., Jawin E. R., Barnouin O. S., Berry K., Burke K. N., Brodbeck B., Burns R., Clark B. C., Clark B. E., Cambioni S., Connolly H. C., Daly M. G., **Delbo M.**, DellaGiustina D. N., Dworkin J. P., Enos H. L., Emery J. P., Gay P., Golish D. R., Hamilton V. E., Hoover R., Lujan M., McCoy T., Mink R. G., Moreau M. C., Nola J., Padilla J., Pajola M., Polit A. T., Robbins S. J., Ryan A. J., Selznick S. H., Stewart S., Wolner C. W. V. 2022. Assessing the Sampleability of Bennu's Surface for the OSIRIS-REx Asteroid Sample Return Mission. *Space Science Reviews* 218, 20.
- [54] ★Ryan A. J., Pino Muñoz D., Bernacki M., **Delbo M.**, Sakatani N., Biele J., Emery J. P., Rozitis B. 2022. Full-Field Modeling of Heat Transfer in Asteroid Regolith: 2. Effects of Porosity. *Journal of Geophysical Research (Planets)* 127, e07191.
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- [61] Marrocchi, Y., **Delbo, M.**, Gounelle, M., Jull, A. J. T. 2021. The astrophysical context of collision processes in meteorites. *Meteoritics and Planetary Science* 56, 1406–1421.
- [62] Hocdé, V. and 153 colleagues including **Delbo', M.** 2021. Mid-infrared circumstellar emission of the long-period Cepheid ℓ Carinae resolved with VLTI/MATISSE. *Astronomy & Astrophysics* 651.
- [63] ★Avdellidou, C. and 8 colleagues including **Delbo', M.** 2021. Impacts on the Moon: Analysis methods and size distribution of impactors. *Planetary and Space Science* 200.
- [64] Sakatani, N. and 93 colleagues including **Delbo', M.** 2021. Anomalous porous boulders on (162173) Ryugu as primordial materials from its parent body. *Nature Astronomy* 5, 766–774.
- [65] *Uribe-Suárez, D., **Delbo, M.**, Bouchard, P.-O., Pino-Muñoz, D. 2021. Diurnal temperature variation as the source of the preferential direction of fractures on asteroids: Theoretical model for the case of Bennu. *Icarus* 360.
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- [81] Grott, M., and 36 colleagues including **Delbo', M.** 2019. Low thermal conductivity boulder with high porosity identified on C-type asteroid (162173) Ryugu. *Nature Astronomy* 406.
- [82] *Cambioni, S., **Delbo', M.**, Ryan, A. J., Furfaro, R., Asphaug, E. 2019. Constraining the thermal properties of planetary surfaces using machine learning: Application to airless bodies. *Icarus* 325, 16.
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- [85] Walsh, K. J. and 38 colleagues including **Delbo', M.** 2019. Craters, boulders and regolith of (101955) Bennu indicative of an old and dynamic surface. *Nature Geoscience* 12, 242–246.
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- [186] Di Martino, M., S. Montebugnoli, G. Cevolani, S. Ostro, A. Zaitsev, S. Righini, L. Saba, S. Poppi, **M. Delbo', A.** Orlati, G. Maccaferri, C. Bortolotti, A. Gavrik, and Y. Gavrik 2004. Results of the first Italian planetary radar experiment. *Planetary and Space Science* 52, 325-330.
- [187] **Delbo', M.**, Harris, A. W., Binzel, R. P., Pravec, P., Davies, J. K. 2003. Keck observations of near-Earth asteroids in the thermal infrared. *Icarus* 166, 116-130.
- [188] Harris, A. W., **Delbo', M.**, Binzel, R. P., Davies, J. K., Roberts, J., Tholen, D. J., Whiteley, R. J. 2001. Visible to Thermal-Infrared Spectrophotometry of a Possible Inactive Cometary Nucleus. *Icarus* 153, 332-337.
- [189] Gai, M., Carollo, D., **Delbo', M.**, Lattanzi, M. G., Massone, G., Bertinetto, F., Mana, G., Cesare, S. 2001. Location accuracy limitations for CCD cameras. *Astronomy and Astrophysics* 367, 362-370.

Invited talks in intl. conferences

- [1] *Revealing the Original Planetesimal Population in the Terrestrial Planet Formation Region Through Astronomical Observations: Constraints for Planet Formation Models*
Marco Delbo. Origins of Solar Systems Constraints on Planet Formation from Theory, Observations, and Meteoritics Gordon Research Conference Jun 15 - 20, 2025 Mount Holyoke College Chair: Maria Schönbachler Vice Chair: Sean Andrews
- [2] *On the primordial sizes and composition of planetesimals (focusing in the main belt)*
Marco Delbo. The Minor Bodies of the Solar System: Space Missions, Observations and Theory. Dec. 16th - 20th 2024. Ringberg Castle, Germany.

- [3] *On the main belt origin of Phaethon the target of the DESTINY+ mission*
Marco Delbo. JAXA's Destiny+ International science teleconferences. June 26th, 2024. On-line.
- [4] *Determination of Sizes and Other Physical Properties of Near-Earth Objects by means of Thermophysical Modelling*
Marco Delbo. EU-ESA Workshop on Size Determination of Potentially Hazardous Near-Earth Objects
Monday, 11 November 2024 - Wednesday, 13 November 2024.
- [5] *Thermal Fatigue on minor bodies' surfaces.*
Marco Delbo. Progressive Failure of Brittle Rocks GSA Penrose Conference June 20 - 24, 2022 Highland Lake Inn and Resort, Flatrock, NC, USA <https://gsa.confex.com/gsa/2022PR/meetingapp.cgi/Home/0>
- [6] *Observational constraints to the primordial size distribution of Main Belt asteroids.*
Marco Delbo. Planetesimal formation meeting. 17-20 November 2020. A virtual interdisciplinary workshop on planetesimal formation via the streaming instability that explores the connection to protoplanetary disc observations and the Solar System minor bodies.
- [7] *The search for the most ancient asteroid collisions reveals the original planetesimals of our solar system*
Marco Delbo, Kevin Walsh, Chrysa Avdellidou, Sonia Fornasier, Rogerio Deienno, Gerard Van Belle, and Alessandro Morbidelli EPSC-DPS Joint Meeting 2019 Centre International de Conférences de Genève (CICG) — Geneva — Switzerland 15–20 September 2019
- [8] *Breaking asteroids and comets with sunlight – The contribution of K.T. Ramesh* The Mach Conference Annapolis MD, USA, 3-5 April, 2019
- [9] *L'exploration spatiale des petits corps du Système Solaire: des retours d'échantillons aux observations remotes.*
Réunion des sciences de la Terre et de la Société Géologique de France – Lille 22 - 26 Octobre 2018.
- [10] *OSIRS-REx@Bennu and Hayabusa2@Ryugu: thermal modelling of sample return mission target asteroids*
Marco Delbo, Kevin Walsh, Tatsuaki Okada, Satoshi Tanaka, Naoya Sakatani, Hiroki Senshu, and Jean-Pierre Bibring Mon, 17 Sep, 11:25–11:45, Room Mars European Planetary Science Congress 2018. Berlin, Germany.
- [11] *Asteroids observations from the ground and space: implications for our understanding of the Main Belt and of asteroid families* Tue, 18 Sep, 11:05–11:25, Room Saturn. European Planetary Science Congress 2018. Berlin, German
- [12] *The discovery of a primordial asteroid family help us to identify the original planetesimal population of our solar system* 42nd COSPAR Scientific Assembly Pasadena, CA, USA, 14 July - 22 July 2018. Declined for personal reasons.
- [13] *P33H-02: Thermophysical properties and modeling of minor bodies regoliths (Invited)* 2017 AGU Fall Meeting. New Orleans, USA, 11-15 Dec 2017.
- [14] *Sources of primordial matter in the asteroid belt'. 51ST ESLAB Symposium: Extreme Habitable Worlds* Space Research and Technology Centre of the European Space Agency (ESA/ESTEC) 4-8 Dec 2017 Noordwijk the Netherlands. (<http://old.esaconferencebureau.com/2017-events/eslab2017/poster>).
- [15] *Asteroid Thermal Modeling (invited)* Asteroid Comets and Meteors (ACM) 2017. Montevideo, Uruguay, 9-14 Apr. 2017.
- [16] *Vieillissement thermique des matériaux à la surface des astéroïdes et des comètes* Mécamat – Fatigue de Structures et des Matériaux – Aussois, France, 23–27 Jan 2017. <http://colloquiemecamat2017.ensma.fr>
- [17] *Asteroid Collisions, Internal Structure, and Physical Properties: Current Knowledge and the AIDA Space Mission.* Stardust Final Conference on Asteroids and Space Debris. ESTEC, 31st Oct 2016 - 3rd Nov 2016. The Netherlands.
- [18] *Asteroid Surface Environment: Remote sensing investigation of asteroids and the nature of their regolith revealed by the thermal inertia.* Asteroid Science Intersections with In-Space Mine Engineering (ASIME) 2016, 20-22/09/2016 Luxembourg.

- [19] *The Gaia Investigation of the Solar System*. IAU General Assembly – Focus meeting 9: “Highlights in the Exploration of Small Worlds”, 10-14/08/2015 Honolulu (HI), US.
- [20] *Asteroid dynamics with GAIA*. IAU General Assembly – Symposium 318 “Asteroids: New Observations, New Models, 3-7/08/2015 Honolulu (HI), US.
- [21] *A new mechanism for the formation of regolith on asteroids*. American Geophysical Union (AGU) Fall meeting, 15-19/12/2014, San Francisco (CA), US.
- [22] *Crackin up asteroids with sunlight* European Planetary Science Congress 2014. 07-12/09/2014, Cascais, Portugal.
- [23] *Thermal fatigue as the origin of regolith on small astereoid (such as Bennu)* OSIRIS-REx Science Team Meeting, Lunar and Planetary Laboratory, 22-24/04/2011, University of Arizona, Tucson, US.
- [24] *Asteroid thermal models and thermal history* OSIRIS-REx Science Team Meeting, Lunar and Planetary Laboratory, 30/10-4/11/2011, University of Arizona, Tucson, US.
- [25] *Near Earth Asteroids – Surface physical properties and albedos* AsteRisk - Observatoire de Paris, 28-29/06/2011, Meudon, France.
- [26] *Interferometry of Asteroids 10 years of VLTI: from first fringes to core science*. ESO Garching bei Muenchen, 24-27/10/2011, Germany.
- [27] *Interferometric observations of solar system minor bodies* Resolving the Future of Astronomy with Long-Baseline Interferometry. 28-31/03/2011, New Mexico Tech, Socorro (NM), US.
- [28] *Minor bodies: from thermal infrared observations to the nature of the regolith*. Regolith on Solar System Bodies. Observatoire de Paris, 1-3/12/2010, Meudon, France.
- [29] *Interferometric observations of asteroids* Observatoire de Paris, 22-23/03/2010, Meudon, France.
- [30] *Observations of asteroids in the thermal infrared with Canaricam at the Gran Telescopio Canarias* Canaricam Workshop, Instituto astrofisica de Canarias (IAC), 4-5/05/2009, Tenerife, Spain.
- [31] *Treatment of thermal infrared data* The surface composition of Mercury from UV-Vis-IR. 3-5/06/2009, University of Parma, Italy.
- [32] *Observations of solar system minor bodies with Herschel*, 11/03/2008, Rome, Italy.
- [33] *Astrometric Mission Gaia: Solar System studies*. Italian National meeting of planetary sciences: San Felice Circeo (LT), 4-8/09/2006, Italy.
- [34] *Thermal IR observations of NEOs: The physical properties of near-Earth objects from observations in the thermal infrared*. Near-Earth Objects Hazard: “Knowledge and Action”, 26-28/04/2006, Belgirate, Italy.
- [35] *Observing Asteroids with the VLTI*, 02/2005, Aosta, Italy .

Refereed Proceedings

- [1] Matter, A., Lopez, B., Antonelli, P., Lehmitz, M., Bettonvil, F., Beckmann, U., Lagarde, S., Jaffe, W., Petrov, R., Berio, P., Millour, F., Robbe-Dubois, S., Glindemann, A., Bristow, P., Schoeller, M., Lanz, T., Henning, T., Weigelt, G., Heininger, M., Morel, S., Cruzalebes, P., Meisenheimer, K., Hofferbert, R., Wolf, S., Bresson, Y., Agocs, T., Allouche, F., Augereau, J.-C., Avila, G., Bailet, C., Behrend, J., van Belle, G., Berger, J.-P., van Boekel, R., Bourget, P., Brast, R., Clausse, J.-M., Connot, C., Conzelmann, R., Csepány, G., Danchi, W. C., **Delbo, M.**, Dominik, C., van Duin, A., Elswijk, E., Fantei, Y., Finger, G., Gabasch, A., Gonté, F., Graser, U., Guitton, F., Guniat, S., De Haan, M., Hagenauer, P., Hanenburg, H., Hofmann, K.-H., Hogerheijde, M., ter Horst, R., Hron, J., Hummel, C., Isderda, J., Ives, D., Jakob, G., Jasko, A., Jolley, P., Kiraly, S., Kragt, J., Kroener, T., Kroes, G., Kuindersma, S., Labadie, L., Laun, W., Leinert, C., Lizon, J.-L., Lucuix, C., Marcotto, A., Martinache, F., Martinot-Lagarde, G., Maucclert, N., Mehrgan, L., Meilland,

- A., Mellein, M., Menardi, S., Merand, A., Neumann, U., Nussbaum, E., Ottogalli, S., Palsa, R., Panduro, J., Pantin, E., Percheron, I., Phan Duc, T., Pott, J.-U., Pozna, E., Roelfsema, R., Rupprecht, G., Schertl, D., Schmidt, C., Schuil, M., Spang, A., Stegmeier, J., Tromp, N., Vakili, F., Vannier, M., Wagner, K., Venema, L., Woillez, J. 2016 An overview of the mid-infrared spectro-interferometer MATISSE: science, concept, and current status Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 9907, 99070A-
- [2] Wolf, S., Lopez, B., Augereau, J.-C., **Delbo, M.**, Dominik, C., Henning, T., Hofmann, K.-H., Hogerheijde, M., Hron, J., Jaffe, W., Lanz, T., Meisenheimer, K., Millour, F., Pantin, E., Petrov, R., Schertl, D., van Boekel, R., Weigelt, G., Chiavassa, A., Juhasz, A., Matter, A., Meilland, A., Nardetto, N., Paladini, C. 2016 Science with MATISSE Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 9907, 99073S-
- [3] **Delbo, M.**, Gayon-Markt, J., Busso, G., Brown, A., Galluccio, L., Ordenovic, C., Bendjoya, P., Tanga, P. 2012 Asteroid spectroscopy with Gaia Planetary and Space Science, 73, 86-94.
- [4] Carbognani, A., Tanga, P., Cellino, A., **Delbo, M.**, Mottola, S., Marchese, E. 2012 The representation of asteroid shapes: A test for the inversion of Gaia photometry Planetary and Space Science, 73, 80-85.
- [5] **Delbo, M.**, Marchi, S., Morbidelli, A. 2009. Temperature Stress at the Surface of Near-Earth Asteroids. Meteoritics and Planetary Science Supplement 72, 5272.
- [6] **Delbo, M.** 2009. E-ELT: Expected Applications to Asteroid Observations in the Thermal Infrared. Earth Moon and Planets 105, 235-247.
- [7] Tanga, P., Hestroffer, D., **Delbo, M.**, Richardson, D. C. 2009. Asteroid rotation and shapes from numerical simulations of gravitational re-accumulation. Planetary and Space Science 57, 193-200.
- [8] **Delbo, M.**, Tanga, P., Mignard, F. 2008. On the detection of the Yarkovsky effect on near-Earth asteroids by means of Gaia. Planetary and Space Science 56, 1823-1827.
- [9] Tanga, P., Hestroffer, D., **Delbo, M.**, Frouard, J., Mouret, S., Thuillot, W. 2008. Gaia, an unprecedented observatory for Solar System dynamics. Planetary and Space Science 56, 1812-1818.
- [10] Mignard, F., Cellino, A., Muinonen, K., Tanga, P., **Delbo, M.**, Dell'Oro, A., Granvik, M., Hestroffer, D., Mouret, S., Thuillot, W., Virtanen, J., 2008. The Gaia mission: Expected applications to asteroid science. Earth Moon Planets 101, 97-125.
- [11] Cellino, A., **Delbo, M.** and Tedesco, E.F. 2007. Albedo and size of (99942) Apophis from polarimetric observations. proceedings of IAU Symposium No 236 "Near Earth Objects, our Celestial Neighbors: Opportunity and Risk". A. Milani, G. Valsecchi & D. Vokrouhlicky, eds., 451-454.
- [12] Mueller, M., **Delbo, M.**, Kaasalainen, M., di Martino, M., Bus, S.J., Harris, A.W. 2007. Indications for Regolith on Itokawa from Thermal-Infrared Observations. PASP Conference Series, in press.
- [13] Kaasalainen, M., Abe, M., Byron, J., **Delbo, M.**, Di Martino, M., Higgins, D., Kitazato, K., Lowry, S., Masi, G., Mueller, M., Vokrouhlicky, D., Warner, B. D., Weissman, P., and Young, J. 2007. Photometric Observations 2001-2004 and Modelling of (25143) Itokawa. PASP Conference Series, in press.
- [14] Tanga, P., **Delbo, M.**, Hestroffer, D., Cellino, A., Mignard, F. 2007. Gaia observations of Solar System objects: Impact on dynamics and ground-based observations. Advances in Space Research 40, 209-214.
- [15] Lvasseur-Regourd, A. C., Fulchignoni, M., **Delbo, M.**, Binzel, R. P. 2005. NEO sizes, shapes and surface physical properties. Comptes Rendus Physique 6, 313-320.
- [16] Dotto, E., Barucci, M. A., Binzel, R. P., **Delbo, M.** 2005. Surface compositions of NEOs. Comptes Rendus Physique 6, 303-312.
- [17] **Delbo, M.**, Harris, A. W. 2002. Physical properties of near-Earth asteroids from thermal infrared observations and thermal modeling. Meteoritics and Planetary Science 37, 1929-1936.

Refereed book chapters

- [1] Klahr H., **Delbo M.**, Gerbig K. 2022. Formation of Main Belt Asteroids. in *Vesta and Ceres – Insights from the Dawn Mission for the Origin of the Solar System*. Edited by Simone Marchi, Carol A. Raymond, and Christopher T. Russell. Cambridge University Press. ISBN: 9781108856324
- [2] **Delbo, M.**, Mueller, M., Emery, J. P., Rozitis, B., Capria, M. T. 2015. Asteroid thermophysical modeling. in *Asteroids IV*, Michel, P., DeMeo, F., Bottke, W.F. eds. the University of Arizona Press. in press. ArXiv e-prints arXiv:1508.05575.
- [3] Durech, J., Carry, B., **Delbo, M.**, Kaasalainen, M., Viikinkoski, M. 2015. Asteroid Models from Multiple Data Sources. in *Asteroids IV*, Michel, P., DeMeo, F., Bottke, W.F. eds. the University of Arizona Press. in press. ArXiv e-prints arXiv:1502.04816.

Refereed thesis

- [1] **Delbo, M.**, 2015. *Studies of the physical nature of asteroids: current trends and perspectives*. Université de Nice Sophia Antipolis, Observatoire de la Côte d'Azur, Thèse d'Habilitation à diriger des Recherches, Ecole Doctorale sciences Fondamentales et Appliquées (ED-SFA): https://www-n.oca.eu/delbo/HDR/MemoireHDR_Delbo_20150518.pdf
- [2] **Delbo, M.**, 2004. *The nature of near-earth asteroids from the study of their thermal infrared emission*. Freie Universität Berlin, Digitale Dissertation, on-line at: <http://www.diss.fu-berlin.de/2004/289/indexe.html>
- [3] **Delbo, M.**, 1997. *Sistema di Guida per il telescopio asterometrico dell'Osservatorio di Torino*, Thèse de Laurea, University of Genova and Astronomical Observatory of Torino, Italia.

Refereed datasets

- [1] Pinilla-Alonso N., De Pra M. N., de León J., Harvison B., Morate D., Lorenzi V., Arredondo A., Campins H., Licandro J., **Delbo M.**, Cabrera-Lavers A., Walsh K., DeMeo F., Sarid G. 2024 PRIMASS-L Spectra Bundle V2.0 NASA Planetary Data System, 114
- [2] **Delbo, M.** 2006. Thermal Infrared Asteroid Diameters and Albedos V1.0. NASA Planetary Data System 52.

Communications in int. conferences

- [1] Mainzer, A. and 70 colleagues including **Delbo, M.** 2021. The Future of Planetary Defense in the Era of Advanced Surveys. Bulletin of the American Astronomical Society. doi:10.3847/25c2cfba7af878
- [2] Lim, L. F. and 17 colleagues including **Delbo, M.** 2021. Main-Belt Infrared Spectral Analogues for (101955) Bennu: Gaussian Fitting to AKARI Spectra of Bennu-Like Asteroids. Lunar and Planetary Science Conference.
- [3] Sakatani, N. and 47 colleagues including **Delbo, M.** 2021. Anomalously Porous and Dark Rocks on Asteroid (162173) Ryugu. Lunar and Planetary Science Conference.
- [4] Pajola, M. and 8 colleagues including **Delbo, M.** 2021. Clasts on (101955) Bennu's boulders: Implications for their possible origin. 43rd COSPAR Scientific Assembly. Held 28 January - 4 February 43.
- [5] Ballouz, R. and 23 colleagues including **Delbo, M.** 2020. Craters on (101955) Bennu's boulders. AAS/Division for Planetary Sciences Meeting Abstracts.
- [6] Rozitis, B. and 34 colleagues including **Delbo, M.** 2020. Thermophysical properties of Bennu and the OSIRIS-REx sample sites. AAS/Division for Planetary Sciences Meeting Abstracts.

- [7] Jawin, E. R. and 25 colleagues including **Delbo, M.** 2020. Diverse Boulders and Recent Mass Movement: Two Years of OSIRIS-REx Observations of the Geology of Asteroid (101955) Bennu. AAS/Division for Planetary Sciences Meeting Abstracts.
- [8] DellaGiustina, D. N. and 13 colleagues including **Delbo, M.** 2020. Material from (4) Vesta on (101955) Bennu. AAS/Division for Planetary Sciences Meeting Abstracts.
- [9] Walsh, K. J. and 25 colleagues including **Delbo, M.** 2020. Geology of Bennu's Equatorial Region. AAS/Division for Planetary Sciences Meeting Abstracts.
- [10] Avdellidou, C. and 8 colleagues including **Delbo, M.** 2020. Hypervelocity impacts on carbonaceous asteroid simulants: comparison with observations. European Planetary Science Congress.
- [Avdellidou et al.(2020)] Avdellidou, C. and 7 colleagues including **Delbo, M.** 2020. Lunar impact flashes: first detection from the Observatory of Nice. European Planetary Science Congress.
- [11] Athanasopoulos, D., Gazeas, K., **Delbo, M.** 2020. Preliminary results on the photometric study of two primordial family asteroids. European Planetary Science Congress.
- [12] Munaibari, E. and 7 colleagues including **Delbo, M.** 2020. Lunar impact flashes: analysis methods. European Planetary Science Congress.
- [13] Ballouz, R.-L. and 19 colleagues including **Delbo, M.** 2020. Craters on (101955) Bennu's boulders. European Planetary Science Congress.
- [14] Ryan, A. and 12 colleagues including **Delbo, M.** 2020. Thermophysical Analysis of Regolith on (101955) Bennu: The Coarse Regolith Conundrum. European Planetary Science Congress.
- [15] Rhoden, A. R., Walsh, K. J., Gattelle, G. M., Avdellidou, C., **Delbo, M.** 2020. On the Origin of the Largest Inner Main Belt D-Type Asteroid. Lunar and Planetary Science Conference.
- [16] Ballouz, R.-L. and 22 colleagues including **Delbo, M.** 2020. Mini-Craters on (101955) Bennu's Boulders: Deriving the Impact Strength of C-Type Objects. Lunar and Planetary Science Conference.
- [17] DellaGiustina, D. N. and 25 colleagues including **Delbo, M.** 2020. Reflectance and Color Heterogeneity on Asteroid Bennu. Lunar and Planetary Science Conference.
- [18] Walsh, K. J. and 14 colleagues including **Delbo, M.** 2020. Likelihood for Rubble-Pile Near-Earth Asteroids to be 1st or Nth Generation: Focus on Bennu and Ryugu. Lunar and Planetary Science Conference.
- [19] Pajola, M. and 22 colleagues including **Delbo, M.** 2020. Surface Density and Size Distribution of Clasts on (101955) Bennu's Boulders: Exposed Clasts or Fallback Material?. Lunar and Planetary Science Conference.
- [20] Sakatani, N. and 48 colleagues including **Delbo, M.** 2020. Thermophysical Property of the Artificial Impact Crater on Asteroid Ryugu. Lunar and Planetary Science Conference.
- [21] Okada, T. and 34 colleagues including **Delbo, M.** 2020. Unveiling Highly-Porous Nature of Primitive Asteroid 162173 Ryugu by Thermal Imager on Hayabusa2. Lunar and Planetary Science Conference.
- [22] Jawin, E. R. and 24 colleagues including **Delbo, M.** 2020. The Geology of (101955) Bennu from the First Year of OSIRIS-REx Observations: Diverse Boulders and Recent Mass Movement. Lunar and Planetary Science Conference.
- [23] Lim, L. F. and 16 colleagues including **Delbo, M.** 2020. Main-Belt Infrared Spectral Analogues for (101955) Bennu: Gaussian Fitting to AKARI Spectra of Bennu-Like Asteroids. Lunar and Planetary Science Conference.
- [24] Pajola, M. and 22 colleagues including **Delbo, M.** 2019. Surface densities and size-frequency distributions of meter-size boulders inside craters on (101955) Bennu. AGU Fall Meeting Abstracts.

- [25] DellaGiustina, D. and 16 colleagues including **Delbo, M.** 2019. Color and albedo heterogeneity of asteroid Bennu and implications for its origin. AGU Fall Meeting Abstracts.
- [26] Clark, B. E. and 27 including **Delbo, M.** colleagues 2019. Overview of the Search for Space Weathering Signals on the Surface of Bennu: One Rock Type, or Two?. LPI Contributions 2189.
- [27] Ballouz, R.-L. and 19 including **Delbo, M.** colleagues 2019. Impact Features on (101955) Bennu's Boulders: Implications for its Dynamical Evolution and Surface History. LPI Contributions 2189.
- [28] Walsh, K. J. and 25 colleagues including **Delbo, M.** 2019. Geology of Bennus Equatorial Ridge. LPI Contributions 2189.
- [29] Lim, L. F. and 15 colleagues including **Delbo, M.** 2019. Main-Belt Infrared Spectral Analogues for (101955) Bennu: AKARI and Spitzer IRS Asteroid Spectra. LPI Contributions 2189.
- [30] Schwartz, S. R. and 21 colleagues including **Delbo, M.** 2019. The Orientations of Boulders on (101955) Bennu's Surface. LPI Contributions 2189.
- [31] Emery, J. P. and 22 colleagues including **Delbo, M.** 2019. Overview of OSIRIS-REx Thermal Observations. LPI Contributions 2189.
- [32] Okada, T., Fukuhara, T., Tanaka, S., Taguchi, M., Arai, T., Sakatani, N., Shimaki, Y., Senshu, H., Demura, H., Ogawa, Y., Suko, K., Sekiguchi, T., Kouyama, T., Helbert, J., Mueller, T. G., Hagermann, A., Biele, J., Grott, M., Hamm, M., Delbo, M. 2019 Thermal Inertia of C-Type Near-Earth Asteroid 162173 Ryugu Determined from the Dawn Side Observations by Thermal Infrared Imager 82nd Annual Meeting of The Meteoritical Society, 2157, 6303-
- [33] Connolly, H. C., Jawin, E. R., Ballouz, R. L., Walsh, K. J., McCoy, T. J., Dellagiustina, D. N., Burke, K., Bierhaus, E. B., Rizk, B., D'Aubigny, C., Hamilton, V. E., Bottke, W. F., Dworkin, J. P., Delbo, M., Tachibana, S., Yurimoto, H., Orisis-Rex Team 2019 OSIRIS-REx Sample Science and the Geology of Active Asteroid Bennu 82nd Annual Meeting of The Meteoritical Society, 2157, 6209-
- [34] Lauretta, D. S., Al Asad, M. M., Ballouz, R. L., Barnouin, O. S., Bierhaus, E. B., Boynton, W. V., Breitenfeld, L. B., Calaway, M. J., Chojnacki, M., Christensen, P. R., Clark, B. E., Connolly, H. C., d'Aubigny, C. D., Daly, M. G., Daly, R. T., Delbo, M., DellaGiustina, D. N., Dworkin, J. P., Emery, J. P., Enos, H. L., Farnocchia, D., Golish, D. R., Haberle, C. W., Hamilton, V. E., Hergenrother, C. W., Jawin, E. R., Kaplan, H. H., Le Corre, L., McCoy, T. J., McMahon, J. W., Michel, P., Molaro, J. L., Nolan, M. C., Pajola, M., Perry, M. E., Reuter, D. C., Rizk, B., Roberts, J. H., Ryan, A., Scheeres, D. J., Schwartz, S. R., Simon, A. A., Susorney, H. C. M., Walsh, K. J., Palmer, E., Zou, X.-D. 2019 OSIRIS-REx Arrives at Asteroid (101955) Bennu: Exploration of a Hydrated Primitive Near-Earth Asteroid Lunar and Planetary Science Conference, 50, 2608-
- [35] Emery, J. P., Rozitis, B., Christensen, P. R., Hamilton, V. E., Simon, A. A., Reuter, D. C., Delbo, M., Lim, L. F., Thomas, C. A., Clark, B. E., Ryan, A., Elder, C. M., Siegler, M. A., Howell, E. S., Nolan, M. C., Lauretta, D. S., Osiris-Rex Team 2019 Thermophysical Properties of (101955) Bennu from OSIRIS-REx Observations Lunar and Planetary Science Conference, 50, 2582-
- [36] Ryan, A. J., Pino-Munoz, D., Bernacki, M., Delbo, M., Emery, J. P., Christensen, P. R., Lauretta, D. S., Osiris-Rex Team 2019 Full-Field Modeling of Heat Transfer in Asteroid Regolith: Thermal Conductivity Results for Mono- and Polydisperse Particulates Lunar and Planetary Science Conference, 50, 2512-
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Invited Seminars

- [1] **Delbo, M.**, **Morbidelli, A.**, 25-02-2025. *Identifying the most interesting asteroid targets for sample return*. F3 workshop: Fast Near Earth Objects Sample Return – Gottingen, Germany.
- [2] **Delbo, M.** 25-05-2023. *Discovering the original planetesimals of our Solar System*. Armagh Observatory and Planetarium, Armagh, Northern Ireland, UK.
- [3] **Delbo, M.** 24-05-2023. *Surfaces of small bodies from in-situ space missions*. Queen's University Belfast, Belfast, Northern Ireland, UK.
- [4] **Delbo, M.** 16-05-2023. *Surface evolution of small bodies as seen by the sample return missions*. School of Physics and Astronomy, University Leicester, Leicester, England, UK.
- [5] **Delbo, M.** 25-11-2022. *Physical properties of near-Earth and main belt asteroids and the future big-data challenge*. European Space Agency, ESRI, Near-Earth Object Coordination Centre (NEOCC), Roma Frascati.
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