

Refereed Articles: 161 / 24,425 citations – h-factor=51 (source ADS, Aug. 2023)  
Invited Talks in International Conferences: 30  
Refereed Proceedings: 17  
Refereed Book Chapter: 3  
Non-Refereed Proceedings and Talks: 202  
Invited Seminars: 31

## Articles in peer reviewed journals

- [1] **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
- [2] 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
- [3] 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.
- [4] Gaia Collaboration and 455 colleagues including **Delbo, M.** 2023. Gaia Data Release 3: Summary of the content and survey properties. *Astronomy & Astrophysics* 674, A1.
- [5] 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.
- [6] 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.
- [7] 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.
- [8] Gaia Collaboration, and 447 colleagues including **Delbo, M.** 2023. Gaia Data Release 3: Pulsations in main sequence OBAF-type stars. *Astronomy & Astrophysics* 674, A36.
- [9] 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.
- [10] Gaia Collaboration and 449 colleagues including **Delbo, M.** 2023. Gaia Data Release 3: Chemical cartography of the Milky Way. *Astronomy & Astrophysics* 674, A38.
- [11] Gaia Collaboration and 447 colleagues including **Delbo, M.** 2023. Gaia Data Release 3: A Golden Sample of Astrophysical Parameters. *Astronomy & Astrophysics* 674, A39.
- [12] 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.
- [13] Gaia Collaboration and 446 colleagues including **Delbo, M.** 2023. Gaia Data Release 3: The extragalactic content. *Astronomy & Astrophysics* 674, A41.
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- [15] 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., Seccull 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.

- [16] Tinaut-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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- [23] Sheward D., Avdellidou C., Cook A., Sefton-Nash E., **Delbo M.**, Cantarella B., Zanatta L. 2022. Py-NAPLE: Lunar Surface Impact Crater Detection. *Monthly Notices of the Royal Astronomical Society* 514, 4320-4328.
- [24] 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.
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**Invited talks in intl. conferences**

- [1] *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.
- [2] *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
- [3] *Breaking asteroids and comets with sunlight – The contribution of K.T. Ramesh* The Mach Conference Annapolis MD, USA, 3-5 April, 2019
- [4] *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.
- [5] *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.
- [6] *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
- [7] *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.
- [8] *P33H-02: Thermophysical properties and modeling of minor bodies regoliths (Invited)* 2017 AGU Fall Meeting. New Orleans, USA, 11-15 Dec 2017.
- [9] *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>).
- [10] *Asteroid Thermal Modeling (invited)* Asteroid Comets and Meteors (ACM) 2017. Montevideo, Uruguay, 9-14 Apr. 2017.
- [11] *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>
- [12] *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.
- [13] *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.
- [14] *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.
- [15] *Asteroid dynamics with GAIA.* IAU General Assembly – Symposium 318 "Asteroids: New Observations, New Models, 3-7/08/2015 Honolulu (HI), US.
- [16] *A new mechanism for the formation of regolith on asteroids.* American Geophysical Union (AGU) Fall meeting, 15-19/12/2014, San Francisco (CA), US.

- [17] *Crackin up asteroids with sunlight* European Planetary Science Congress 2014. 07-12/09/2014, Cascais, Portugal.
- [18] *Thermal fatigue as the origin of regolith on small asterooid (such as Bennu)* OSIRIS-REx Science Team Meeting, Lunar and Planetary Laboratory, 22-24/04/2011, University of Arizona, Tucson, US.
- [19] *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.
- [20] *Near Earth Asteroids – Surface physical properties and albedos* AsteRisk - Observatoire de Paris, 28-29/06/2011, Meudon, France.
- [21] *Interferometry of Asteroids 10 years of VLTI: from first fringes to core science.* ESO Garching bei Muenchen, 24-27/10/2011, Germany.
- [22] *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.
- [23] *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.
- [24] *Interferometric observations of asteroids* Observatoire de Paris, 22-23/03/2010, Meudon, France.
- [25] *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.
- [26] *Treatment of thermal infrared data* The surface composition of Mercury from UV-Vis-IR. 3-5/06/2009, University of Parma, Italy.
- [27] *Observations of solar system minor bodies with Herschel*, 11/03/2008, Rome, Italy.
- [28] *Astrometric Mission Gaia: Solar System studies.* Italian National meeting of planetary sciences: San Felice Circeo (LT), 4-8/09/2006, Italy.
- [29] *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.
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## Refereed Proceedings

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## Invited Seminars

- [1] **Delbo, M.** 25-05-2023. *Discovering the original planetesimals of our Solar System*. Armagh Observatory and Planetarium, Armagh, Northern Ireland, UK.
- [2] **Delbo, M.** 24-05-2023. *Surfaces of small bodies from in-situ space missions*. Queen's University Belfast, Belfast, Northern Ireland, UK.
- [3] **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.
- [4] **Delbo, M.** 25-11-2022. *Physical properties of near-Earth and main belt asteroids and the future big-data challenge* European Space Agency, ESRIIN, Near-Earth Object Coordination Centre (NEOCC), Roma Frascati.
- [5] **Delbo, M.** 27-05-2020. *When world fractures. The effect of crack propagation in shaping planetary surfaces*. Observatoire de la Côte d'Azur, Nice, France
- [6] **Delbo, M.** 27-05-2020. *Constraints on initial size distribution of planetesimals*. Invited lecture at the winter school of C.N.R.S. Chronology of Solar System formation VII. First solids and planetesimals: formation conditions and evolution. Les Houches, France, February 2020.

- [7] **Delbo, M.** 01-2019. *The preliminary survey of the near-Earth asteroid Bennu by NASA's OSIRIS-REx* Aristotele University Thessalonique, Greece
- [8] **Delbo, M.** 05-0217. *Fracture thermique des astéroïdes et des comètes* Laboratoire Sols, Solides, Structures et Risques .Grenoble, France
- [9] **Delbo, M** 2017. *In search for the primitive solar system material in the Main Asteroid Belt.* Sterrewach (Observatory) Leiden, the Netherlands.
- [10] **Delbo, M.,** 2016. *Cracking up asteroids, comets and other minor bodies under the light of the sun* ESA/ESTEC October 21, 2016. Noordwijk, The Netherlands.
- [11] **Delbo, M.,** 2014. *Burning and cracking Asteroids with Sunlight* Centre for Astrophysics and Planetary Science (CAPS) University of Kent, Canterbury, UK, 21/10/2014.
- [12] **Delbo, M.,** 2014. *Cracking up asteroids with Sun light* Rigas Fotonikas Centrs, Riga, Latvia. 9/07/2014.
- [13] **Delbo, M.,** 2014. *Cracking up asteroids with Sun light (thermal fatigue cracking of rocks on asteroids)* INAF – Astronomical Observatory of Arcetri. 27/06/2014.
- [14] **Delbo, M.,** 2014. *Cracking up asteroids with Sun light* Center for Lunar and Asteroid Surface Science / Florida Space Institute. Orlando, FL, US. 16/Apr/2014.
- [15] **Delbo, M.,** 2013. *Weathering processes of asteroid surfaces? Formation of regolith* INAF – Astronomical Observatory of Catania, Italy. 5/11/2014.
- [16] **Delbo, M.,** 2012. *Heating of near-Earth objects and meteoroids due to close approaches to the Sun* Univerisy of Hawaii, US. 6/09/2012.
- [17] **Delbo, M.,** 2011. *The Main Belt Origin of the asteroid 2008 TC<sub>3</sub> and the Almahata Sitta meteorites.* Astronomical Institute of the Charles University, Prague, CZ 19/10/2011.
- [18] **Delbo, M.,** 2011. *The Main Belt Origin of the asteroid 2008 TC<sub>3</sub> and the Almahata – Sitta meteorites.* South-West Reserach Institute Boulder, CO, USA. 05/04/2011.
- [19] **Delbo, M.,** 2010. *Towards a new compositional map of the asteroid belt: a key tool for understanding the origin of asteroid and their dynamical families.* Jet Propulsion Laboratory NASA Pasadena, CA, USA. 28/09/2010.
- [20] **Delbo, M.,** 2010. *Temperature on asteroids: implication for the nature of the regolith, thermal metamorphysm and rock breaking by thermal fatigue.* Museum national d'Histoire naturelle, Paris, France. 10/06/2010.
- [21] **Delbo, M.,** 2008a. *Physics of asteroids from analysis of their heat emission: thermal models and new observational techniques.* Istituto di Astrofisica Spaziale e Fisica Cosmica, Rome, Italy. 13/03/2008.
- [22] **Delbo, M.,** 2008b. *Asteroid physical properties from interferometry to high precision astrometry.* Observatoire de la Côte d'Azur, France. 26/02/2008.
- [23] **Delbo, M.,** 2008c. *Observations et modeles de l'emmission infrarouge des corps planetaires. A partir des astéroïdes potentiellement dangereux jusqu'aux planetes extrasolaires.* Observatoire de Bordeaux, France. 28/03/2008.
- [24] **Delbo, M.,** 2007a. *Recent results from observations and modeling of asteroids in the thermal infrared.* Max Planck Institute for Solar System Research, Max Planck-Str. 2 37191 Katlenburg-Lindau, Germany. 28/08/2007.
- [25] **Delbo, M.,** 2007b. *Observations and modeling of planetary objects in the thermal infrared.* Laboratoire Universitaire d'Astrophysique de Nice UMR 6525 (LUAN), Nice, France. 09/05/2007.
- [26] **Delbo, M.,** 2007c. *From potentially hazardous asteroids to extrasolar planets: observations and modeling of thermal infrared emission of planetary objects.* Institut de Mecanique Celeste et de Calcul des Ephemerides (IMCCE), Paris, France. 02/05/2007.

- [27] **Delbo, M.**, 2005. *Thermal Infrared Properties of Near-Earth Asteroids*. Massachusetts Institute of Technology, Boston, US. 19/02/2005.
- [28] **Delbo, M.**, 2004a *Thermal properties of near-Earth asteroids: novel results and their implication for the strength of the Yarkovsky effect*. Observatoire de la Côte d'Azur, Nice, France. 7/12/2004.
- [29] **Delbo, M.**, 2004b *The Nature of near-Earth asteroids from the study of their thermal infrared emission*. INAF - Osservatorio Astronomico di Torino, Italy. 14/10/2004.
- [30] **Delbo, M.**, 2003 *Observation of Asteroids with GAIA* DLR-Berlin, Germany. 09/05/2003.
- [31] **Delbo, M.**, 2001 *Asteroid thermal models and the problems of their application to Near Earth Asteroids*. Max Planck Institute fuer Aeronomie, Katlenburg-Lindau, Germany. 05/09/2001.