

## Noemi Pinilla-Alonso, Ph. D

Associate in Planetary Sciences: Florida Space Institute-UCF, US  
Deputy Principal Scientist: Arecibo Observatory-UCF, US

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# 1 Curriculum Vitae

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## 1.1 Formal Education

April 2009: PhD in Physical Science, *Suma Cum Laude*, University of La Laguna, Spain.

2003: M.S. in Physics of the Cosmos (Astronomy & Astrophysics) (*Excellent*, A+), University of La Laguna, Spain.

1997: B.S. in Physical Science, major in Astrophysics, University of La Laguna, Spain.

## 1.2 Professional Appointments

2016 - present: Associate in Planetary Science, Florida Space Institute, FL, USA.

2019 - present: Joint appointment as Associate in Planetary Science at the Physics department at UCF, FL, USA.

2018 - present: Arecibo Observatory Deputy Principal Scientist, Puerto Rico.

2018 - April 2021: Arecibo Observatory Science Manager, Puerto Rico.

2016 - 2015: Visiting researcher, Florida Space Institute, FL, USA.

2015 - 2012: Postdoctoral Research Associate, University of Tennessee, Knoxville, USA.

2012 - 2011: Postdoctoral Researcher, Instituto de Astrofísica de Andalucía, Spain.

2011 - 2009: NASA Postdoctoral Fellowship, NASA Ames Research Center, USA.

2002 - 2008: Telescope operator at Telescopio Nazionale Galileo, in the Observatorio del Roque de los Muchachos, Spain.

2000 - 2002: Co-Investigator and on-site operator of several site testing campaigns at the Observatorio del Roque de los Muchachos.

1997 to Sep 1998: Research Assistant with the group of Massive Blue Stars at the Instituto de Astrofísica de Canarias.

## 1.3 Awards

2021: Women's History Month Honoree. An award for Women in recognition to their impact on students and UCF's campus community.

2019: University of Central Florida Luminary Award for being "instrumental in creating collaborations that have elevated the work done at UCF's Florida Space Institute, the Center for Lunar and Asteroid Surface Studies within the College of Sciences, and at the Arecibo Observatory in Puerto Rico."

- 2018: Asturiana del mes (Asturian of the month: May 2018) honor given by the newspaper *La Nueva España*, lead of the newspapers in the Principality of Asturias (2 million inhabitants) with certified market share in readership of 75% and in the top ten in circulation in Spain.
- 2017: Asteroid 10689 Pinillaalonso named after me by the IAU.
- 2016: Severo Ochoa Excellence Visiting Professor at the Instituto Astrofísico de La Laguna, funded by the Spanish Ministry of Economy and Competitiveness.
- 2015: Travel Grant for Young Researchers (American Astronomical Society) Destined to attend the XXIX General Assembly in Hawaii, USA.
- 2014: Campus Atlántico Tricontinental - Visiting Professorship to the Instituto de Astrofísica de Canarias (IAC) in La Laguna, Tenerife, funded by the University of La Laguna.

#### 1.4 Fellowships and scholarships

- 2016: Severo Ochoa Excellence Visiting Professor at the Instituto de Astrofísica de Canarias (IAC) in La Laguna, Tenerife. Funded by the Severo Ochoa National Excellence program SEV-2015-0584 at the IAC, supported by the Spanish Ministry of Economy and Competitiveness (Oct to Dec 2016)
- 2014: Campus Atlántico Tricontinental - Visiting Professorship at the Instituto de Astrofísica de Canarias (IAC) in La Laguna, Tenerife, funded by the University of La Laguna.
- 2013: Short Visit Grant at the Instituto de Astrofísica de Canarias, funded by the European Science Foundation (ESF) within the framework of the ESF activity entitled “Gaia Research for European Astronomy Training”.
- 2011: Juan de la Cierva Fellowship, funded by the Spanish Science Ministry.
- 2011: Fellowship for Specialist Guest Researcher at Observatorio do Valongo, Brazil from the INCT-A in Brazil.
- 2009 - 2011: NASA Postdoctoral Fellowship at the Ames Research Center - USA. Program administered by the Oak Ridge Associated Universities and funded by the National Aeronautics and Space Administration.

#### 1.5 Service

- A) **Community service:** (xiv) 2019-2022, elected member of the Committee of the Division of Planetary Sciences of the AAs. (xiii) 2021 Reviewer for funding proposals submitted to the PRELUDIUM-BIS program of the National Science Center in Poland in the area of Astronomy and Space Science. (xii) 2020 Invited member of the Science Organizing

- Committee of the 52-DPS Annual Conference, first one DPS hold virtually. **(xi)** 2020 Team Member of the James Webb Observatory Master Class, celebrated in Orlando, FL, USA and in Arecibo, PR. **(x)** 2008 - Present. Reviewer of peer-reviewed publications such as Planetary Science Journal, Planetary Space Journal, Icarus, and Astronomy and Astrophysics. **(ix)** 2013 - present. Panelist for several evaluation panels of NASA/ROSES open solicitations, including FINESST. **(viii)** 2018 - 2020 Member of the Time Allocation Committee of the CAHA observatory, Andalusia, Spain. **(vii)** 2015 - present Core-Science team of SCORPIO (a.k.a OCTOCAM), next-generation astronomical instrument for Gemini South telescope. **(vi)** 2017 Committee to evaluate the UCF Campus/Presence at the Kennedy Space Center at UCF Office for Research and Commercialization. **(v)** 2016. External reviewer for the Taiwan's time allocation committee for the Canada-France-Hawaii Telescope. **(iv)** 2014. Member of two Focus Groups of the JWST Solar System Working Group to develop case studies for observing with James Webb Space Telescope, one focused on TNOs and other on Observation of Occultations. **(iii)** 2013. External reviewer for the OPTICON (Optical Infrared Coordination Network for Astronomy) International Time Allocation Committee. **(ii)** 2011. Member of the working group WGC4: Solar System of the Gaia Research for European Astronomy Training (GREAT) networking program. **(i)** 2010 - 2015: Member of the Spanish Net for the Scientific Exploitation of GAIA data (RecGAIA)
- B) **Conference service:** **(xii)** 2021 Co-chair of the User's meeting if the 2021 EVN Bi-annual Mini Symposium, hold virtually. **(xi)** 2020 Chair of a plenary session of the 52-DPS Annual Conference, hold virtually. **(x)** 2020 Science Organizing Committee of the annual meeting of the Division for Planetary Science, 2020. **(ix)** 2020 Science Organizing Committee of the workshop "New Collaborative Perspective for the CAHA Observatory - RIA workshop", Granada, Spain. **(viii)** 2020 Local Organizing Committee of the *NANOGrav Science Meeting and Students Workshop*, Orlando, Florida. **(vii)** 2020-2021 Science Organizing Committee of the *15th EVN Symposium and Users Meeting: Providing the Sharpest View of the Universe*, Cork, Ireland (hold virtually). **(v)** 2019 Chair of the Science Organizer Committee and member of the Local Organizing Committee of the workshop *Pathways to the Future of the Arecibo Observatory*. **(iv)** 2018 Organizer of the workshop: *The process of building a research proposal*, at the Arecibo Observatory. **(iii)** 2018, SOC of the Focus Meeting: *A Century of Asteroid Families* of the 2018 IAU General Assembly of the International Astronomical Union, Austria. **(ii)** 2013. Local and Scientific organizing Committee of the Workshop: *ASSG2013 : Asteroid Spectroscopy in Support of Gaia*, Nice, France. **(i)** 2010. Scientific Organizing Committee of the Workshop: *Organic Material in Planetary Science: nurture or nature?*, Observatoire du Paris.
- C) **University service:** **(viii)** 2021 Reviewer for the internal UCF selection for the open call of the Department of Defense of the USA. **(vii)** 2018 - present, Chair of three and member of other three hiring committees at the Arecibo Observatory, the Florida Space

Institute, and the Physics department of UCF. **(vi)** 2018 - 2021. Thesis Committee of Anicia Arredondo, graduate student of the Physics Department at UCF, USA. **(v)** 2017 Committee to evaluate the UCF Campus/Presence at the Kennedy Space Center at UCF Office for Research and Commercialization. **(iv)** 2013. Member of the Committee of judges of the EURECA (Exhibition of Undergraduate Research and Creative Achievement) competition at the University of Tennessee, Knoxville, USA. **(iii)** 2011, Member of the tribunal for PhD Qualifying Exam of the student Flavia Luzia Jasmim at the Observatório Nacional(ON/MCT), Brazil. **(ii)** 2001-2003 Elected member of the Graduate Student Council for the Astronomy & Astrophysics PhD program. **(i)** 1996-1997 Elected member of the Student Government at the undergraduate level.

## 1.6 Academic Activity

- A) **Lecturer:** **(v)** 2021 Lecturer of the 2021 Fall Course of the Learning Institute for Elders of the University of Central Florida in the opening session, August 2021. Lecture “Unveiling of the Icy Bodies in the Solar System with the James Webb Space Telescope” (200 in person attendees and more than 200 views on-line in the first seven days) ([here](#)) **(iv)** 2021 Lecturer of the 70-h advanced course on Planets, Exoplanets, and Their Systems in a broad and multidisciplinary context of the IAA Severo Ochoa program of Excellence at Aula Virtual of the CSIC ([here](#)) **(iii)** 2018 Lecturer of the course *Small Bodies in the Solar System: the pave stones for a trip back in time* Collection of eight 1-hour lessons for graduate students and researchers at the Institute of Astronomy of the Universidad Autónoma de México. **(ii)** 2018 Cover for Dr. Brisset undergraduate classes of the *AST 2002: Introduction to Astronomy*, of the Physics department (classes with ~ 200 students) **(i)** 2012-2015 Cover for Dr. Emery undergraduate classes of the *GEOL 104:Exploring the planets*, of the College of Arts and Science of the University of Tennessee (classes with ~ 120 students)
- B) **Mentoring and Supervision of Students** **(x)** 2021: Supervisor of a senior high-school student in a research project related with the study of TNOs. **(ix)** 2021 Chair of the advisory committee of a graduate student at the Physics Department of the University of Central Florida, FL, USA. **(viii)** 2018 to present: Supervisor of Dr. Mario de Prá a post-doctoral scholar of the Preeminent Postdoctoral Program of the UCF. **(vii)** 2017 to 2020: Supervisor of Dr. Estela Fernández-Valenzuela a post-doctoral scholar of the Preeminent Postdoctoral Program of the UCF. **(vi)** 2018 - 2019, 2019 - 2020 Mentor of an international graduate student from the Observatorio Nacional, Brazil. Graduate with honors at the Observatorio Nacional in 2020. **(v)** 2011 - 2016 Thesis Advisor of Vania Lorenzi, Universidad de La Laguna, Spain, graduated with “*Suma Cum Laude* honors” **(iv)**2011 - 2016 Mário de Prá. Ph.D Student at Observatorio Nacional de Rio de Janeiro. This graduate student collaborated (partially under my supervision) in the reduction and analysis of visible and near-infrared spectra in the frame of PRIMASS. **(iii)** 2012

- 2015 I collaborated with Dr. Emery, associate professor of the Earth and planetary sciences department of the university of Tennessee, in the mentoring of some of the graduate and undergraduate students. My main responsibility was to introduce them in the observational techniques. **(ii) 2012 - Present** I regularly collaborate with Prof. Campins, at the University of Central Florida, in the supervision of undergraduate and graduate level students e.g. Anicia Arredondo and Zoe Landsman. **(i) Jan 2012 - Sep 2012** Manuel Félix Herrera. Master student at the University of Granada, 2012. Although I was not officially the supervisor of the master thesis of this student I co-supervised his research work together with Dr. J.L Ortiz during 2012, while working as a postdoc at the Instituto Astrofísico de Andalucía, Spain. He passed with honors his master evaluation in September 2012 with the dissertation "Lost and Retention of volatiles in trans-Neptunian Objects".

## 1.7 Education and Public Outreach

- A) **Popular Science: (xviii) 2021:** *Future Direction of the Arecibo Observatory Seminar* at the 124<sup>th</sup> Topical Symposium of the New York State Section of the American Physical Society (APS) and Astronomical Society of New York (ASNY): Science and Discoveries at Arecibo Observatory. **(xvii) 2021:** *Current Status of the Arecibo Observatory and Future Visions for the Site Seminar* for the Astronomical Association in Sabadell, Spain **(xvi) 2021:** *My Journey Chasing Ices* 8<sup>th</sup> March seminar, part of the Undergraduate Course *journeys: Astronomy and Discovery* of the department of Physics and Astronomy of the Agness Scott College, Georgia, USA. **(xv) 2021:** *En nuestro Sistema Solar el Tamaño Importa: objetos pequeños, gran ciencia* Seminar at the Astronomical Association, Sabadell, Spain. **(xiv) 2020:** *The Arecibo Observatory Roadmap for the Future: science enhancement plans under UCF management* Invited IAA-Severo Ochoa Excellence Program Colloquium. **(xiii) 2020:** *Interstellar Probe Study Webinar Series: Dwarf Planetas and KBOs: Fossils of Solar System Evolution* Invited by the Interstellar Probe Science Team, JHUAPL, USA, panelist/presenter. **(xii) 2020:** *Arecibo Observatory Observer Training Workshop: Recent Science Highlights and Future Plans for AO* Seminar. **(xi) 2019:** *Arecibo Observatory: a first class science tool in the island of Puerto Rico* Talk offered during the guided visit to several consuls of Latin American countries to the observatory. **(x) 2019:** *Come and Meet a Scientist* Arecibo Observatory Visitor Center. **(ix) 2017:** Guest Speaker at *The Hunt For Alien Habitable Planets* Symposium invited by the Society of Physics Students UPR - Río Piedras. **(viii) 2015:** *Icy News: From the outskirts of the Solar System* Conference at the Science Museum, Valladolid, Spain during the World Space Week. Activity: Invited speaker. **(vii) 2010:** *Career Day* in the Monta Vista High School, Cupertino, CA. Activity: Volunteer speaker. **(vi) 2006:** *Puppet Show at the Science Week in La Palma*. Activity: speaker and scientific advisor. **(v) 2004:** *Educational Science*. Liceo Italiano de Madrid (in La Palma). Activity: speaker. **(iv)** Director and host person at the festival *Un Universo de Cine*, (2001 and 2000), two editions of Science popularization. **(iii) 2001:** *Astronomical Camps for*

*Children*. Science and Cosmos Museum in La Laguna, Spain. Activity: organizer and trainer. **(ii) 1999**: *Starry Nights* at the Hotel Bahía del Duque. Sessions of outreach and education. Activity: Organizer and trainer. **(i) 1998**: *Meet us at the Observatory*, Arturo Dupérier Astronomical Observatory, Lanzarote. Outreach-astronomical activities. Activity: Local organizing and management team.

- B) **Broadcasted and podcasted: (viii) 2002 - Present** Interviewed and quoted several times in the press such as: *Scientific America* (2021), *New York Times* (2012), *Space.com* (2021). **(vii) 2000 - Present** Interviewed several times at national newspapers such as: *El País*, *El Mundo*, *La Nueva España*, *El Comercio*, *La Vanguardia* **(vi) 2020**: Interviewed by the Podcast: *La Fábrica de la ciencia*: Special chapter on the Arecibo Telescope. March 2021. ([here](#)). **(v) 2020**: Interviewed on the celebration of the *Hispanic Heritage Month* at the Arecibo Observatory, PR. Live streamed and recording available at the Arecibo facebook webpage. **(iv) 2019**: Interviewed at *Día a Día Puerto Rico* a magazine aired in Telemundo, PR. **(iii) 2018-2021**: Interviewed in several occasions for the news broadcast at WFTV9/abc, Orlando. **(ii) 2015**: *Informe Semanal: Unveiling Pluto*. Co-host of one episode of a weekly tv show (in Spain) presenting the mission New Horizons and the fly-by of the Pluto system. **(i) 2015 - 2019** Broadcasted in the regional news in Florida (Channel 9) and Puerto Rico (TeleMundo) with different updates on Astronomical discoveries.

## 2 Projects Funded by the Administration

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### 2.1 Projects funded by the administration as principal or co-investigator)

The works with (\*) are the ones lead by a supervised post-doctoral researcher or student.

- P1 2022- 2024 “DiSCo-TNOs: Discovering the composition of the trans-Neptunian objects, icy embryos for planet formation” Funded by the STSci **PI: N. Pinilla-Alonso**. Number of researchers:9 . Budget\$659K.
- P2 2022- 2024 “Pluto’s climate system with JWST.” Funded by the STSci **PI: E. Lellouch**. Number of researchers:9 . Budget\$252K.
- P3 2022- 2024 “The moons of Uranus: A NIRSpec investigation of their origins, organic constituents, and possible ocean world activity.” Funded by the STSci **PI: R. Cartwright**. Number of researchers:11 . Budget\$236K.
- P4 “A Facility for Photonic Atmospheric Sensing Technology” Funded by UCF Jump Start (President’s Strategic Investment Program 2021-2022) **PI: Steve Eikenberry**. Number of researchers: 4. Budget\$180k (plus \$90k match)
- P5 “Space Photonics in Interferometric Imaging for Communications, Environment, and Defense” Funded by UCF Jump Start (President’s Strategic Investment Program 2021-2022) **PI: Peter Delfyett** Number of Researchers:6 Budget\$325k (plus \$50k match)
- P6 2021-2022 “Exploring the icy outskirts of the Solar System: Innovative approach!” Funded by UCF Seed Funding program: Exploratory Research. **PI: N. Pinilla-Alonso** Number of researchers: 4. Budget: \$25K.
- P7 (\*) 2021- 2023 “Quasi-Hildas Objects: The Missing Link Between The Hildas And Centaurs Populations”. **PI. M. De Prá Co-I:N. Pinilla-Alonso**. (2020- 2022). Funded by the Solar System Observations program of NASA/ROSES-2020. Number of researchers: 3 Budget: \$194K
- P8 (\*) 2020-2021“Quasi-Hildas Objects: The Missing Link Between The Hildas and Centaurs Populations". **PI: M. de Prá. Co-I: N. Pinilla-Alonso**. Funded by the Space Telescope Science Institute. (2020 - 2021) Number of researchers: 4. Budget: \$91K
- P9 "Toward a more complete understanding of Haumea’s family tree". **PI: E. Fernandez-Valenzuela. Co-I: N. Pinilla-Alonso**. Funded by the Space Telescope Science Institute. Budget: negotiating Number of researchers: 7.



- P10 2020: "NANOGrav student workshop and science meeting". January 2020 Funded by the Office of the Vice President for Research and Dean of the College of Graduate Studies. **PI: N. Pinilla-Alonso**. Budget:\$2k. Number of researchers: 1
- P11 2019-2023 "Enhancing Science Excellence at the Arecibo Observatory". Funded by NSF, (2019). PI: R. Lugo. Co-I: N. Pinilla-Alonso. Budget: \$1.5 mill. Number of researchers: 4.
- P12 (\*) 2020: "Bringing the JWST to the science community in Florida, Puerto Rico and Latin America - (Team application, FSI/UCF/ Arecibo)". Awarded by STScI, (2018). PI: E. Fernandez-Valenzuela & Ryan C. Challener. Co-I: N. Pinilla-Alonso. Number of researchers: 14.
- P13 June 2019 - May 2024. "Center for Lunar and Asteroid Surface Science (CLASS)". Funded by NASA, Solar System Exploration Research Virtual Institute (2018). PI: D. Britt. Co-I: N. Pinilla-Alonso. Budget:\$6.7 mill. Number of researchers: 33.
- P14 Mar 2019 - Mar 2024. "Arecibo Observatory Planetary Radar Program". Funded by NASA-Solar System Observations (ROSES 2018) PI: A. Virkki, Co-I N. Pinilla-Alonso. Number of researchers 12. Budget: \$35mill.
- P15 Feb 2019 "Pathways to the Future of the Arecibo Observatory". Funded by NSF. PI: **N. Pinilla-Alonso** Number of researchers:1 Budget \$49.9K (Conference proposal)
- P16 Oct 2018 - Sep 2021. "Active Asteroids: Investigating Surface Structural Failure as a Source of Mass Loss Objects". Funded by NSF - Astronomy and Astrophysics Research Grants. PI: Julie Brisset. **Co-PI: N. Pinilla-Alonso**. Number of researchers: 3. Budget \$503K
- P17 Apr 2018 - Dec 2018. "Arecibo Observatory Planetary Radar Program" Funded by NASA, USA. PI: R. Lugo. Co-I N. Pinilla-Alonso. Number of Researches: 6. Budget: \$2mill.
- P18 Jan 2018 - Dec 2021 "Primitive Asteroids Spectroscopic Study: Exploitation of data from Gaia and JWST - PAST ( AYA2017-89090-P)". Funded by MINECO, Spain. PI: J. de León. Co-I: N. Pinilla-Alonso. Number of researchers: 3. Budget:73,205 euros.
- P19 2018-2021 "Finding the recipe to cook a primitive small body in the Solar System" Funded by the Space Research Initiative Program of the University of Central Florida. **PI: N. Pinilla-Alonso**. Number of Researchers: 2. Budget: \$85K.
- P20 Mar 2018 - Nov 2021 "PRIMitive Asteroids Spectroscopic Survey (PRIMASS): the past as a puzzle". Funded by the NASA-Planetary Data Archiving, Tools and Restoration (ROSES 2017). **PI: N. Pinilla-Alonso**. Number of Researchers: 3 Budget: \$158K.
- P21 Nov 2017 - Nov 2019 "Earth- and Space-Based Studies in Support of NASA Space Missions". Funded by the Space Research Initiative Program of the University of Central Florida. **PI: N. Pinilla-Alonso**. Number of Researchers: 2 Budget: \$71K.

- P22 Dec 2016 - Jun 2018 "Digging-Up Ice Rocks in the Solar System". Funded by the Space Research Initiative Program of the University of Central Florida. **PI: N. Pinilla-Alonso.** Number of Researchers: 1 Budget: \$159K.
- P23 Jan 2017 - Dec 2020 "Origin of Near-Earth Asteroids Targeted by Spacecraft". Funded by the NASA: Solar System Observations (ROSES 2016). PI: H. Campins. Co-I: N. Pinilla-Alonso. Number of researchers: 3 Budget: \$284K.
- P24 Dec 2016 - Dec 2019 "WFC3 imaging of active asteroid P/2016 G1". Funded by the Space Telescope Science Institute: General Grant Provisions. **PI: N. Pinilla-Alonso.** Number of funded researchers: 1. Budget: \$25K.
- P25 Mar 2016 - Feb 2017 "Study of Surface Heterogeneity of icy dwarf planets and other medium size Kuiper Belt objects". Funded by the California Institute of Technology, Jet Propulsion Laboratory. **PI: N. Pinilla-Alonso.** Number of researchers: 2. Budget: \$10K.
- P26 Oct 2015 - Sept 2016 "Preparing for JWST: Completing the IRAC Legacy in the Kuiper Belt". Funded by the University of Arizona. **PI: N. Pinilla-Alonso.** Number of researchers: 1. Budget: \$134K.
- P27 Aug 2014 - Aug 2017 "Objetos Transneptunianos y otros remanentes de la formación del sistema solar. Evolución del sistema solar y sistemas exoplanetarios (IAA)" (P12-FQM-1776). Funded by: Proyecto de Investigación de Excelencia de la Junta de Andalucía. PI: J.L Ortiz-Moreno. Co-I: N. Pinilla-Alonso. Number of researchers: 5. Budget: 100K euros.
- P28 Aug 2013 - Jul 2018 "The center for Lunar and Asteroid Surface Science". Funded by: Virtual institute for the exploration of the surfaces of the objects in the Solar System (CLASS) based at the Florida Space Institute in Orlando. PI: D. Britt. Co-I: N. Pinilla-Alonso. Number of researchers: 15. Budget: \$5.0 millions.
- P29 Jun 2013 "Spectroscopic Characterization of asteroids in the Polana *family-ies*". Funded by: European Science Foundation Research Networking Programme (ESF) Activity: Gaia Research for European Astronomy Training. Short visit to the Instituto de Astrofísica de Canarias. **PI: N. Pinilla-Alonso.** Number of researchers: 1 Budget~\$2.5K.
- P30 Dic 2012 - Nov 2014 "Propiedades Físicas de los Objetos Transneptunianos y otros cuerpos primitivos (IAA)' (AYA2011-30106-C02-01) Funded by: Plan Nacional I+D+I 2011, Ministerio de Ciencia e Innovación. PI: J.L. Ortiz-Moreno. Co-I: N. Pinilla-Alonso. Number of researchers: 10. Budget: 250K euros.
- P31 Jun 2011 - Jun 2012 "Characterization of the surface of Iapetus with respect to Phoebe and Hyperion: an innovative and detailed approach to testing of current models and knowledge" Funded by: NASA Cassini Data Analysis Program (ROSES) PI: C. M. Dalle-Ore. Co-I: N. Pinilla-Alonso. Number of researchers: 3. Total budget: \$338K.

- P32 May 2011 - Dec 2013. "Properties of Jupiter Trojans from far-IR spectroscopy and photometry". Funded by: Herschel Space Observatory Data Analysis. **US-PI: Noemi Pinilla-Alonso**. Number of researchers: 1. Budget: \$33.6K.
- P33 Dic 2009 - Dic 2010 "Theoretical and Empirical Studies of Solar System Materials". Funded by: NASA Planetary Geology and Geophysics Program (ROSES). PI: Ted. L. Roush. Co-I: N. Pinilla-Alonso. Number of researchers: 6. Budget: \$72K.
- P34 Jan 2011 - Dec 2015 "El entorno astrofísico de la formación del Sistema Solar a partir del estudio de los materiales primitivos contenidos en condritas y cometas". Funded by: Plan Nacional I+D+i 2011 (Ministerio de Ciencia e Innovación). PI: J.M. Trigo-Rodriguez. Co-I: N. Pinilla-Alonso. Number of researchers: 8. Budget: 78.6K euros.
- P35 Apr 2009 - Apr 2011 "Organic Matter in the Solar System", Funded by NASA Post-doctoral Program. **PI: Noemi Pinilla-Alonso**. Number of researchers: 1. Budget: \$106K.
- P36 Jan 2009 - Dec 2011 "Physical Properties of the Dwarf Planets and Primitive Objects in the Solar System" (IAC), AYA2008-06202-C03-02. Funded by the Spanish National Science Administration (MICINN). PI: Javier Licandro. Co-I: N. Pinilla-Alonso. Number of researchers in the group: 5. Budget: 58K euros.
- P37 Oct 2008 - Sep 2011 "Estudios de cuerpos menores mediante técnicas de imagen (IAA)", AYA2008-06202-C03-01. Funded by: Spanish National Science Administration (MICINN). PI: J.L Ortiz. Co-I: N. Pinilla-Alonso. Number of researchers: 10. Budget: 183K euros
- P38 Dec 2005 - Dec 2008 "The surface of the trans-Neptunian Objects and Related Families" (IAC), AYA2005-07808-C03-02. Funded by the Spanish National Science Administration (MEC). PI: Javier Licandro. Co-I: N. Pinilla-Alonso. Number of researchers in the group: 5. Budget: 28K euros.
- P39 Jan 2003 - Dec 2003 "Study of the water vapor and its relationship with meteorological parameters" (IAC). Funded by the Canary Government. PI: Mark. R. Kidger. Co-I: N. Pinilla-Alonso. Number of researchers in the group: 4. Budget: 16.4K euros.
- P40 Nov 2001 - Nov 2002 "Development of a system for measuring atmospheric water vapor based on GPS technology: Applications to the prospection of the sky over astronomical observatories and weather forecast" (IAC-IEEC) AYA-2000-0071-P4-02 Funded by: the Spanish National Science Administration (MCYT). PI: Dr. Mark Kidger. Co-I: N. Pinilla-Alonso. Number of researchers in the group: 4. Budget: 47.1K euros.

## 2.2 Projects funded by the administration as collaborator

- COL1 2020 - 2022. "NEOROCKS: The NEO Rapid Observation, Characterization and Key Simulations" Funded by H2020-SPACE-2018-2020 PI: E. Dotto, Collaborator: N. Pinilla-Alonso. Number of researchers: 46. Budget: \$2millions.

- COL2 Nov 2018 "Pathways to the Future of the Arecibo Observatory". Funded by the Puerto Rico Science, Technology & Research Trust. PI: C. Padín Collaborator: N. Pinilla-Alonso. Number of researchers 4 Budget \$5.2K (Conference proposal)
- COL3 1999 - to the present. "Promotion of the Canary Observatories" (Research Institute of Astrophysics in the Canaries, IAC). Funded by the Spanish National Science Administration (MEC). PI: Casiana Muñoz Tuñón (I participated as researcher in 2002-2003). Number of researchers in the group (variable).

### 3 Publication History

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I include below a detailed list of publications that I have authored or co-authored since 2000 (under Pinilla-Alonso, N or Pinilla, N). They accumulate more than 1,531 citations in 19 years. This results in an h-index of 21, an i10-index of 50, and a read10-index of 324. The collection contains:

- 3 chapters in scientific books.
- 80 papers published in refereed publications since 2005.
- 201 unrefereed publications, including abstracts presented at conferences since 2000 (49 as first author) and 10 circulars.
- 17 invited presentations in international conferences of which 3 were plenary.
- 12 invited seminars or colloquiums.
- 20 white papers, research dissertations, and technical reports.

The works with (\*) are the ones lead by a supervised post-doctoral researcher or student.

#### 3.1 Chapters

- C1 N. Pinilla-Alonso, M. De Pra, and C. Souza-Feliciano. “Surface Composition of the trans-Neptunian Objects: Where are the ices in the Solar System?”. Chapter included in the book Planetary Systems Now, published by World Scientific Publishing. Eds. Luisa M. Lara, and David Jewitt (In edition, 2022)
- C2 N. Pinilla-Alonso, J. Stansberry, and B. Holler. “Surface properties of large TNOs: Expanding the study to longer wavelengths with the James Webb Space Telescope”. The Trans-Neptunian Solar System, Edited by Dina Prrialnik, Maria Antonietta Barucci, Leslie Young. ISBN: 9780128164907. Elsevier, 2020., p.395-412. [Chapter](#)
- C3 de León, J. , Licandro, J., Pinilla-Alonso, N. “The Diverse Population of Small Bodies of the Solar System”. pp 1-25. Chapter included in Handbook of Exoplanets, Springer International Publishing. Editors: Hans J. Deeg & Juan Antonio Belmonte. 2018. [Chapter](#)

#### 3.2 Refereed Publications

- R1 N. Pinilla-Alonso, M. Popescu, J. Licandro, E. Fernandez-Valenzuela, W. M. Grundy, R. Duffard, A. Cabrera-Lavers, D. Hidalgo Soto, J. L. Rivos, and D. Morate. “Detection of the irregular shape of Menoetius southern limb from observations of the 2017 - 2018 Patroclus-Menoetius mutual events” Submitted to PSJ.

- R2 A. Arredondo, H. Campins, N. Pinilla-Alonso, J. de León, V. Lorenzi, D. Morate, J. L. Rizos, and M. De Prá “Spectral diversity of the inner belt primitive asteroid background population” *Icarus* 368 (2021) id.11.4619 [Paper](#)
- R3 J. Licandro, J. de León, F. Moreno, C. de la Fuente Marcos, R. de la Fuente Marcos, A. Cabrera-Lavers, L. Lara, A. de Souza-Feliciano, M. De Prá, N. Pinilla-Alonso, and S. Geier. “Activity of the Jupiter co-orbital comet P/2019 LD2 (ATLAS) observed with OSIRIS at the 10.4 m GTC”. *A&A*, 650, id.A79, 2021. [Paper](#)
- R4 A. Arredondo, H. Campins, N. Pinilla-Alonso, J. de León, V. Lorenzi, and D. Morate. “Near-infrared spectroscopy of the Sulamitis asteroid family: Surprising similarities in the inner belt primitive asteroid population”. *Icarus*, Volume 358, article id. 114210. 2021 [Paper](#)
- R5 (\*)E. Fernandez-Valenzuela, N. Pinilla-Alonso, J. Stansberry, J. P. Emery, W. Perkins, C. Van Laerhoven, B. J. Gladman, W. Fraser, D. Cruikshank, T.G. Muller, E. Lellouch, W. Grundy, D. Trilling, C. Dalle-Ore, and Y. Fernandez “Compositional study of trans-Neptunian objects at  $\lambda < 2.2 \mu\text{m}$ . *Journal of Planetary Sciences*, volume 2, Issue 1, id.10. 2021 [Paper](#)
- R6 A. Arredondo, H. Campins, N. Pinilla-Alonso, J. de León, V. Lorenzi, and D. Morate. ”Near-infrared spectroscopy of the Chaldaea asteroid family: Possible link to the Klio family”. *Icarus*, Volume 354, article id. 114028. 2021 [Paper](#)
- R7 (\*) M. N. De Prá, N. Pinilla-Alonso, J. Carvano, J. Licandro, D. Morate, V. Lorenzi, J. De León, H. Campins, T. Mothé-Diniz. "A Comparative Analysis of the Outer Belt Primitive Families". *Astronomy & Astrophysics*, 643, id.A102, 2020. [Paper](#)
- R8 C. Lisse, J. M. Bauer, D. Cruikshank, J. Emery, Y. Fernández, E. Fernández-Valenzuela, M. Kelley, A. McKay, W. Reach, Y. Pendleton, N. Pinilla-Alonso, J. Stansberry, M. Sykes, D. Trilling, D. Wooden, D. Harker, and C. Woodward. "Spitzer's Solar System Science Legacy: Studies of the Relics of Solar System Formation & Evolution. Part 1 - Comets, Centaurs, and Kuiper Belt Objects". Accepted, *Nature Astronomy*, v4, 930-939, 2020. [Paper](#)
- R9 A. Alvarez-Candal, A. C. Souza-Feliciano, W. Martins-Filho, N. Pinilla-Alonso, and J. L. Ortiz. “The Dwarf Planet Makemake as seen by X-Shooter”. *Monthly Notices of the Royal Astronomical Society*, 497, Issue 4. 2020 [Paper](#)
- R10 J. de León, J. Licandro, C. de la Fuente Marcos, R. de la Fuente Marcos, L. M. Lara, F. Moreno, N. Pinilla-Alonso, M. Serra-Ricart, M. De Prá, R. Scarpa, J. Font Serra, S. Geier, V. Lorenzi, A. Harutyunyan, A. C. Souza-Feliciano, M. Popescu, and A. Cabrera-Lavers, "Visible and near-infrared observations of interstellar comet 2I/Borisov with the 10.4-m GTC and the 3.6-m TNG telescopes". *Monthly Notices of the Royal Astronomical Society*, Volume 495, Issue 2, pp.2053-2062, 2020. [Paper](#)

- R11 R. Giovanni Urso, D. Baklouti, Z. Djouadi, N. Pinilla-Alonso, and R. Brunetto. "Near-infrared Methanol Bands Probe Energetic Processing of Icy Outer Solar System Objects" *The ApJ Letters*, 894:L3, 2020. [Paper](#)
- R12 R. J. Cartwright, J. P. Emery, N. Pinilla-Alonso, W. M. Grundy, and D. P. Cruikshank. "Probing the regoliths of the classical Uranian satellites using the Infrared Array Camera: Are their surfaces mantled by a layer of tiny H<sub>2</sub>O ice grains?" *Icarus*, 338, article id. 113513, 2020. [ads](#)
- R13 (\*) M. De Prá; J. Licandro; N. Pinilla-Alonso; V. Lorenzi; E. Rondón; J. M. Ferreira Carvano; D. Morate, and J. de León. "The spectroscopic properties of the Lixiaohua family, cradle of Main Belt Comets". *Icarus*, 338, article id. 113473, 2020. [ads](#)
- R14 (\*) A. C. Souza-Feliciano, M. De Prá, N. Pinilla-Alonso, A. Alvarez-Candal, E. Fernandez-Valenzuela, J. de León, R. Binzel, P. Arcoverde, E. Rondon, and M. Santana. "Visible Analysis of NASA Lucy Mission Targets Eurybates, Polymele, Orus and Donaldjohanson". *Icarus*, 338, article id. 113463, 2020. [ads](#)
- R15 A. Arredondo; D. Morate; A. Malfavon, N. Pinilla-Alonso, J. de León, V. Lorenzi, and H. Campins. "Near Infrared spectroscopy of the Klio primitive inner-belt asteroid family". *Icarus*, 335, article id. 113427, 2020. [Paper](#)
- R16 D. Morate.; J. de León.; M. De Prá; J. Licandro; N. Pinilla-Alonso; H. Campins; A. Arredondo; J. M. Carvano; D. Lazzaro; A. Cabrera-Lavers. "The last pieces of the primitive inner belt puzzle: Klio, Chaldaea, Chimaera, and Svea". *A&A*, 630, id.141. 2019 [Paper](#)
- R17 H. Medeiros; J. de León; D. Lazzaro; M. Popescu; V. Lorenzi; N. Pinilla-Alonso; Z. Landsman; J. L. Rizos; D. Morate and O. Vaduvescu. "Compositional characterization of V-type candidate asteroids identified using the MOVIS catalog". *Monthly Notices of the Royal Astronomical Society*, Volume 488, Issue 3, p.3866-3875. [ads](#)
- R18 (\*) E. Fernández-Valenzuela; J. L. Ortiz; N. Morales; P. Santos-Sanz; R. Duffard, A. Aznar, V. Lorenzi, N. Pinilla-Alonso, and E. Lellouch. "The changing rotational light-curve amplitude of Varuna and evidence for a close-in satellite". *ApJ Letters*, 883, 1, id. L21, 2019 [ads](#)
- R19 J. L. Rizos; J. de León; J. Licandro; H. Campins; M. Popescu; N. Pinilla-Alonso; D. Golish; M. de Prá and D. Lauretta. "Spectral clustering tools applied to Ceres in preparation for OSIRIS-REx color imaging of asteroid (101955) Bennu". *Icarus*, Volume 328, p. 69-81, 2019 [Paper](#)
- R20 M. P. Lucas, J. P. Emery, E. MacLennan, N. Pinilla-Alonso, R. J. Cartwright, S. S. Lindsay, V. Reddy, J. A. Sanchez, C. A. Thomas and V. Lorenzi. "Hungaria asteroid region telescopic spectral survey (HARTSS) II: Spectral homogeneity among Hungaria family asteroids". *Icarus*, 322, p. 227-250, 2019 [ads](#)

- R21 R. J. Cartwright, J. P. Emery, N. Pinilla-Alonso, M. P. Lucas, A. S. Rivkin, D. E. Trilling. “Red material on the large moons of Uranus: Dust from the irregular satellites?”. *Icarus*, 314,210-231, 2018. [Paper](#)
- R22 J. de León; H. Campins; D. Morate;M. De Prá; V. Alí-Lagoa; J. Licandro; J. L. Rizos; N. Pinilla-Alonso; D. N. DellaGiustina; D. S. Lauretta; M. Popescu and V. Lorenzi. “Expected spectral characteristics of (101955) Bennu and (162173) Ryugu, targets of the OSIRIS-REx and Hayabusa2 missions”. *Icarus* 313 25-37, 2018. [Paper](#)
- R23 (\*) M. N. De Prá, N. Pinilla-Alonso., J. M. Carvano, J. Licandro, H. Campins, T. Mothé-Diniz, J. de León, and V. Alí-Lagoa. ”PRIMASS visits Hilda and Cybele Groups”. *Icarus*, 311, p. 35-51, 2018. [Paper](#)
- R24 M. Devogéle, P. Tanga, A. Cellino, Ph. Bendjoya, J.-P. Rivet, J. Surdej, D. Vernet, J.M. Sunshine, S.J. Bus, L. Abe, S. Bagnulo, G. Borisov, H. Campins, B. Carry, J. Licandro, W. McLean, N. Pinilla-Alonso. “New polarimetric and spectroscopic evidence of anomalous enrichment in spinel-bearing Calcium-Aluminium-rich Inclusions among L-type asteroids”. *Icarus*, 304, p. 31-57, 2018. [Paper](#)
- R25 Gy. M. Szabó; Cs. Kiss; N. Pinilla-Alonso; E. Y. Hsiao; G. H. Marion; J. Gyorgyey Ries; R. Duffard; A. Alvarez-Candal; K. Sárneczky and J. Vinkó. “Surface Ice and Tholins on the Extreme Centaur 2012 DR<sub>30</sub>”. *The Astronomical Journal*, 155, Issue 4, id. 170, 2018. [Paper](#)
- R26 D. Morate; J. de León; M. De Prá, M; J. Licandro; A. Cabrera-Lavers; H. Campins and N. Pinilla-Alonso.“ Visible spectroscopy of the Sulamitis and Clarissa primitive families: a possible link to Erigone and Polana.” *Astronomy and Astrophysics*, 610, id.A25., 2018. [Paper](#)
- R27 F. Moreno, J. Licandro, M. Mutchler, A. Cabrera-Laverns, N. Pinilla-Alonso, and J. F. Pozuelos. “Disrupted asteroid P/2016 G1. II. Follow-up observations from the Hubble Space Telescope”. *Astrophysical Journal*, 154, Issue 6, article id. 248. 2017.[Paper](#)
- R28 (\*) M. Lucas, J. Emery, N. Pinilla-Alonso, S. Lindsay, and V. Lorenzi. “Hungaria Asteroid Region Telescopic Spectral Survey (HARTSS) I: Evidence for a Compositionally Diverse Background Population”. *Icarus*, Volume 291, p. 268-287. 2017 [Paper](#)
- R29 N. Pinilla-Alonso; J. de León; K. J. Walsh; H. Campins; V. Lorenzi; M. Delbo; F. DeMeo; J. Licandro; Z. Landsman; M. P. Lucas; V. Alí-Lagoa; and B. Burt. “Portrait of the Polana-Eulalia family complex: Surface homogeneity revealed from near-infrared spectroscopy”. *Icarus*, 274, p. 231-248 (2016) [Paper](#)
- R30 V. Alí-Lagoa; J. Licandro; R. Gil-Hutton; M. Cañada-Assandri; M. Delbo’.; J. de León; H. Campins; N. Pinilla-Alonso; M. S. P. Kelley; and J. Hanus. “Differences between the Pallas



- collisional family and similarly sized B-type asteroids”. *Astronomy & Astrophysics*, 591, id.A14 (2016)[Paper](#)
- R31 J. de León; N. Pinilla-Alonso; M. Delbo; H. Campins; A. Cabrera-Lavers; P. Tanga; A. Cellino; P. Bendjoya; J. Gayon-Markt; J. Licandro; V. Lorenzi; D. Morate; K. J. Walsh; F. DeMeo; Z. Landsman; and V. Ali-Lagoa. “Visible spectroscopy of the Polana-Eulalia family complex: Spectral homogeneity”. *Icarus*, Volume 266, p. 57-75 (2016). [Paper](#)
- R32 A. Alvarez-Candal; N. Pinilla-Alonso, J. L. Ortiz; R. Duffard; N. Morales; P. Santos-Sanz; A. Thirouin; and J. S. Silva. “Absolute magnitudes and phase coefficients of trans-Neptunian objects”. *Astronomy & Astrophysics*, Volume 586, id.A155 (2016). [Paper](#)
- R33 D. Morate; J. de León; M. De Prá; J. Licandro; A. Cabrera-Lavers; H. Campins, ; N. Pinilla-Alonso; V. Ali-Lagoa. “Compositional study of asteroids in the Erigone collisional family using visible spectroscopy at the 10.4 m GTC”. *Astronomy & Astrophysics*, Volume 586, id.A129 (2016). [Paper](#)
- R34 P. Santos-Sanz, R. G. French, N. Pinilla-Alonso, J. Stansberry, Z.Y. Lin, Z.W. Zhang, E. Vilenius, Th. Müller, J.L. Ortiz, F. Braga-Ribas, A. Bosh, R. Duffard, E. Lellouch, G. Tancredi, L. Young, and S. N. Milam. “James Webb Space Telescope Observations of Stellar Occultations by Solar System Bodies and Rings”. *Publications of the Astronomical Society of the Pacific*, 128, 959, 018011 (2016). [Paper](#)
- R35 A. Parker, N. Pinilla-Alonso, P. Santos-Sanz, J. Stansberry, A. Alvarez-Candal, M. Bannister, S. Benecchi, J. Cook, W. Fraser, W. Grundy, A. Guilbert, B. Merline, A. Moullet, M. Mueller, C. Olkin, and D. Ragozzine. “Physical Characterization of TNOs with the James Webb Space Telescope”. *Publications of the Astronomical Society of the Pacific*, 128, 959, 18010 (2016). [Paper](#)
- R36 (\*) V. Lorenzi; N. Pinilla-Alonso; J. Licandro; D. P. Cruikshank; W. M. Grundy; R. P. Binzel; J. P. Emery. “The spectrum of Pluto, 0.40-0.93  $\mu\text{m}$ . I. Secular and longitudinal distribution of ices and complex organics”. *Astronomy & Astrophysics*, Volume 585, id.A131 (2016). [Paper](#)
- R37 (\*) R. J. Cartwright; J. P. Emery; A. S. Rivkin; D. E. Trilling; N. Pinilla-Alonso. “Distribution of CO<sub>2</sub> ice on the large moons of Uranus and evidence for compositional stratification of their near-surfaces”. *Icarus*, Volume 257, p. 428-45 (2015). [Paper](#)
- R38 Z. A. Landsman; H. Campins; N. Pinilla-Alonso; V. Hanusc. and V. Lorenzi. “A new investigation of hydration in the M-type asteroids”. *Icarus*, Volume 252, p. 186-19 (2015) [Paper](#)
- R39 (\*) V. Lorenzi; N. Pinilla-Alonso; J. Licandro. “Rotationally resolved spectroscopy of dwarf planet (136472) Makemake”. *Astronomy & Astrophysics*, Volume 577, id.A86 (2015) [Paper](#)

- R40 J. L. Ortiz; R. Duffard; N. Pinilla-Alonso; A. Alvarez-Candal; et al. “Possible ring material around centaur (2060) Chiron” *Astronomy & Astrophysics*, Volume 576, id.A18 (2015) [Paper](#)
- R41 R. Duffard.; N. Pinilla-Alonso; J. L. Ortiz; A. Alvarez-Candal; B. Sicardy; P. Santos-Sanz; N. Morales; C. Colazo; E. Fern’andez-Valenzuela, and F. Braga-Ribas. “Photometric and spectroscopic evidence for a dense ring system around Centaur Chariklo”. *A&A*, 568, id.A79 (2014) [Paper](#)
- R42 R. Duffard, N. Pinilla-Alonso, P. Santos-Sanz and 33 more coauthors. “TNOs are Cool!: A Survey of the Transneptunian Region: A Herschel-PACS view of 16 Centaurs”. *Astronomy & Astrophysics*, *A&A*, 564, id.A92 (2014).[Paper](#)
- R43 (\*) V. Lorenzi, N. Pinilla-Alonso, J. Licandro, C. M. Dalle-Ore and J. P. Emery. “Rotationally Resolved Spectroscopy of (20000) Varuna in the near-Infrared”. *A&A*, 562, A85 (2014) [Paper](#)
- R44 C. W. Hergenrother, M. C. Nolan, D. J. Scheeres, R. P. Binzel, E. A. Cloutis, P. Michel, C. d’Aubigny, J. Licandro, D. Lazzaro, B. E. Clark, B. Rizka, N. Pinilla-Alonso, H. Campins, E. C. Beshore, and D. S. Lauretta. “Lightcurve, Color and Phase Function Photometry of the OSIRIS-REx Target Asteroid (101955) 1999 RQ<sub>36</sub>”. *Icarus* 226, 663-670 (2013) [Paper](#)
- R45 J. de León; V. Lorenzi; V. Alí-Lagoa; J. Licandro; N. Pinilla-Alonso and H. Campins. “Additional spectra of asteroid 1996 FG<sub>3</sub>, backup target of the ESA MarcoPolo-R mission”. *Research Note at Astronomy & Astrophysics*, 556, A33 (2013). [Paper](#)
- R46 J. de León; J. L. Ortiz; N. Pinilla-Alonso; A. Cabrera-Lavers; A. Alvarez-Candal; N. Morales; R. Duffard; P. Santos-Sanz; J. Licandro; A. Perez-Romero; and V. Lorenzi. “Visible and near-infrared observations of asteroid 2012 DA14 during its closest approach of February 15th, 2013”. *Astronomy & Astrophysics*, 555, L2 (2013) [Paper](#)
- R47 V. Alí-Lagoa; J. de León; J. Licandro.; M. Delbó; H. Campins; N. Pinilla-Alonso; M. S. Kelley. “Physical properties of B-type asteroids from WISE data”. *Astronomy & Astrophysics*, 554, A71 (2013) [Paper](#)
- R48 N. Pinilla-Alonso, V. Lorenzi, H. Campins, J. de León, J. Licandro. “Near-Infrared spectroscopy of 1999 JU<sub>3</sub>, target of the Hayabusa-2 Mission”. *Astronomy & Astrophysics*, 552, A79 (2013) [Paper](#)
- R49 N. Pinilla-Alonso, A. Alvarez-Candal, V. Lorenzi, J. Licandro and T.L. Roush. “Surface composition and dynamical evolution of two retrograde objects in the outer solar system: 2008 YB3 and 2005 VD”. *Astronomy & Astrophysics*, 550, 13A (2013) [Paper](#)

- R50 C. M. Dalle Ore; L. V. Dalle Ore; T. L. Roush; D. P. Cruikshank; J. P. Emery; N. Pinilla-Alonso; G. A. Marzo. "A compositional interpretation of trans-neptunian objects taxonomies". *Icarus*, 222, 307D. (2013) [Paper](#)
- R51 J. L. Ortiz; B. Sicardy; F. Braga-Ribas; A. Alvarez-Candal; E. Lellouch; R. Duffard; N. Pinilla-Alonso et al. "Albedo and atmospheric constraints of dwarf planet Makemake from a stellar occultation". *Nature*, 491, 566-569 (2012). [Paper](#)
- R52 J. de León, N. Pinilla-Alonso, J. Licandro, H. Campins and G. Marzo. "Near-infrared spectroscopic survey of B-type asteroids: compositional analysis". *Icarus*, 218, 196 - 206. (2012) [Paper](#)
- R53 N. Pinilla-Alonso; T. L. Roush, G. A. Marzo; D. P. Cruikshank and C. Dalle-Ore. "Iapetus surface variability revealed from statistical clustering of a VIMS mosaic: the distribution of CO<sub>2</sub>". *Icarus*, 215, 75 - 82 (2011) [Paper](#)
- R54 C. Morea Dalle Ore, M. Fulchignoni, D.P. Cruikshank, M.A. Barucci, R. Brunetto, H. Campins, C. de Bergh, J. Debes, E. Dotto, J.P. Emery, W. Grundy, A. Jones, V. Mennella, T. Owen, I. Pascucci, Y. Pendleton, N. Pinilla-Alonso, E. Quirico and G. Strazzulla. "Organic Materials in Planetary Systems: Nature or nurture" (*A&A*, 533, id.A98, 14 pp June 2011) [Paper](#)
- R55 A. Alvarez-Candal; N. Pinilla-Alonso; J. Licandro; E. Mason; F. Gourgéot; T. L. Roush and D. P. Cruikshank. "The spectrum of 136199 Eris between 350 and 2350 nm: Results with X-Shooter". *A&A* 532, A130 (2011). [Paper](#)
- R56 J. Licandro, H. Campins, G. P. Tozzi, J. de León, N. Pinilla-Alonso, H. Boehnhardt, and O. Hainaut. "Testing the comet nature of main belt comets. The spectra of 133P/Elst-Pizarro and 176P/LINEAR". *A&A*, 532, A65 (2011). [Paper](#)
- R57 J. de León, T. Moth'e-Diniz, J. Licandro, N. Pinilla-Alonso, H. Campins. "New observations of asteroid (175706) 1996 FG<sub>3</sub>, primary target of the ESA Marco Polo-R mission". *A&A* 530, L12 (2011). [Paper](#)
- R58 J. Licandro, H. Campins, M. S. Kelley, K. Hardgrove, N. Pinilla-Alonso, D. Cruikshank, A. S. Rivkin. & J. Emery. "(65) Cybele: detection of small silicate grains, water-ice and organics". *Astronomy & Astrophysics*, 525, A34 (2011). [Paper](#)
- R59 F. De Luise, E. Dotto, S. Fornasier, M.A. Barucci, N. Pinilla-Alonso, D. Perna and F. Marzari. "A Peculiar Family of Jupiter Trojans: the Eurybates". *Icarus*, 209, pp.586-590. (2010) . [Paper](#)
- R60 B. García-Lorenzo, A. Eff-Darwich, J. Castro-Almazán, N. Pinilla-Alonso, C. Muñoz-Tuñón, Rodríguez-Espinosa, J.M. "Infrared astronomical characteristics of the Roque de los

- Muchachos Observatory: precipitable water vapour statistics". *Mon. Not. R. Astron. Soc.* 405, 4, 2683-2696. (2010). [Paper](#)
- R61 J. de León, J. Licandro, M. Serra-Ricart, N. Pinilla-Alonso, and H. Campins. "Observations, compositional, and physical characterization of near-Earth and Mars-crosser asteroids from a spectroscopic survey". *Astronomy & Astrophysics*, vol. 513, id.A26 (2010) [Paper](#)
- R62 H. Campins, K. Hargrove, N. Pinilla-Alonso, E. Howell, M.S. Kelley, T. Monte-Diniz, Y. Fernandez, & J. Ziffer. "Water ice and organics on the surface of the asteroid 24 Themis". *Nature* 464, 1320-1321. (2010) [Paper](#)
- R63 R. Gil-Hutton; J. Licandro; N. Pinilla-Alonso and R. Brunetto. "The trans-Neptunian object size distribution at small sizes". *A&A*, 500, pp.909-916. (2009). [Paper](#)
- R64 N. Pinilla-Alonso; R. Brunetto; J. Licandro; R. Gil-Hutton; T. L. Roush and G. Strazzulla. "The surface of (136108) Haumea (2003 EL<sub>61</sub>), the largest carbon-depleted object in the trans-Neptunian belt". *A&A*, 496 pp. 547-556. (2009). [Paper](#)
- R65 Pinilla-Alonso,N; Licandro, J & Lorenzi, V. "Visible Spectroscopy of objects in the neighborhood of 2003 EL<sub>61</sub>'s family". *A&A*, 489, pp.455-458. (2008). [Paper](#)
- R66 J. Licandro; A. Alvarez-Candal; J. de León, N. Pinilla-Alonso, N. et al. "Spectral Properties of Asteroids in Cometary Orbits". *A&A*, 481, pp.861-877. (2008). [Paper](#)
- R67 A. Sanchez-Lavega; G. S. Orton; R. Hueso et al. (y 24 coautores más incluyendo a N. Pinilla-Alonso). "Depth of a strong Jovian Jet from a Planetary-Scale Disturbance driven by storms", *Nature*. 451, pp.437-440. (2008). [Paper](#)
- R68 J. Licandro; A. Alvarez-Candal; J. de León, N. Pinilla-Alonso et al. "Spectral Properties of Asteroids in Cometary Orbits". *A&A*, 487, pp.1195-1196. (2008). [Paper](#)
- R69 A. Sanchez-Lavega; G. S. Orton; R. Hueso et al. (y 24 coautores más incluyendo a N. Pinilla-Alonso). "Depth of a strong Jovian Jet from a Planetary-Scale Disturbance driven by storms", *Nature*. 451, pp.1022. (2008). [Paper](#)
- R70 H. Campins; J. Licandro; N. Pinilla-Alonso, N et al. "Nuclear Spectra of Comet 28P Neujmin 1". *AJ*, 134, 4, pp. 1626-1633. (2007). [Paper](#)
- R71 Pinilla-Alonso,N; Licandro, J.; Gil-Hutton, R. et al. "The water ice rich surface of (145453) 2005 RR<sub>43</sub>: a case for a population of trans-neptunian objects?". *A&A Letter*, 468, 1, pp.L25-L28. (2007).[Paper](#)
- R72 J. Licandro; H. Campins; T. Mothé-Diniz ; N. Pinilla-Alonso et al. "The nature of Comet-asteroid transition object (3200) Phaethon". *A&A*, 461, 2, pp.751-757. (2007). [Paper](#)

- R73 J. Licandro; W. M. Grundy; N. Pinilla-Alonso and P. Leisy. “Visible spectroscopy of 2003 UB<sub>313</sub>: evidence for N<sub>2</sub> ice on the surface of the largest TNO?”. A&A 458,1, pp.L5-L8. (2006). [Paper](#)
- R74 J. Licandro; L. diFabrizio; N. Pinilla-Alonso et al. “Trans-neptunian object (55636) 2002 TX<sub>300</sub>, a fresh icy surface in the outer solar system”. A&A, 457, 1, pp.329-333. (2006). [Paper](#)
- R75 H. Campins; J. Ziffer; J. Licandro; N. Pinilla-Alonso et al. “Nuclear Spectra of Comet 162P/Siding Spring (2004 TU<sub>12</sub>)”. AJ, Volume 132, Issue 3, pp. 1346-1353. (2006). [Paper](#)
- R76 J. Licandro; J. de León; N. Pinilla; M. Serra-Ricart. “Multi-wavelength spectral study of asteroids in cometary orbits”. AdSpR..38.1991L. (2006). [Paper](#)
- R77 J. Licandro; N. Pinilla-Alonso; M. Pedani et al. “The methane ice rich surface of large TNO 2005 FY<sub>9</sub>: a Pluto-twin in the trans-Neptunian belt?”. A&A, 445, 3, pp.L35-L38. (2006). [Paper](#)
- R78 J. Zieffer; H. Campins; J. Licandro; N. Pinilla-Alonso et al. “Near Infrared Spectra of two Asteroids with low Tisserand Invariant”. E,M & P Volume 97, Issue 3-4, pp. 203-212. (2005) [Paper](#)
- R79 Meech K.J.; Ageorges, N; A’Hearn, M.F (y 206 coautores m’as, incluyendo a N. Pinilla-Alonso). “Deep Impact: Observations from a Worldwide Earth-Based Campaign”. **Science**, 310, 5746, pp. 265-269. (2005) [Paper](#)
- R80 J. Licandro; N. Pinilla-Alonso. “The Inhomogeneous Surface of Centaur 32522 Thereus (2001 PT<sub>13</sub>)”. ApJ, Volume 630, Issue 1, pp. L93-L96. (2005). [Paper](#)

### 3.3 White Papers and Technical Reports

- D1 “A DOE-Supported Facility for Long-wavelength Relativistic-plasma Acceleration (FLORA)” M. Chini, L. Argenti, Z. Chang, R. Amezcua Correa, L. Fang, A. Khaled, N. Pinilla-Alonso, T. Rahman, M. Razavi, A. Roshi, M. Vaida, X. Yu, O. Zeidan. **White paper** sent to UCF Dean’s Office of the College of Science, (2022)
- D2 “The Future Of The Arecibo Observatory: The Next Generation Arecibo Telescope” A. Roshi ;N. Aponte; E. Araya; and 69 more authors (including N. Pinilla-Alonso) eprint arXiv:2103.01367 **White paper**, (2021)
- D3 “The Importance of Ground-Based Radar Observations for Planetary Exploration” J. Lazio; A. K. Virkki; N. Pinilla-Alonso; L. A. M. Benner; M. Brozovic; B. J. Butler; B. A. Campbell; F. Cordova; K. de Kleer; P. G. Edwards; T. M. Eubanks; Y. R. Fernandez; J. D. Giorgini; E.

- Kruzins; J. L. Margot; A. Mainzer; S. E. Marshall; F. Paganelli; C. A. Raymond; P. A. Taylor; E. Rivera-Valentín; M. A. Slade; F.C.F. Venditti Planetary Science and Astrobiology Decadal Survey 2023-2032 **White paper** e-id. 434; Bulletin of the American Astronomical Society, Vol. 53, Issue 4, e-id. 434 (2021)
- D4 “Understanding the Formation and Evolution of the Kuiper Belt by Exploring the Haumea System” J. Brisset; E. Fernandez-Valenzuela; A. Sickafoose; F. Venditti; A. Whizin; E. Beltran; A. F. B de Almeida Prado; J. Castillo-Rogez; W. Grundy; D. Minton; A. Misra; J. L. Ortiz; N. Pinilla-Alonso; D. Ragozzine; D. M. Sanchez; G. Sarid; J. Stansberry. Planetary Science and Astrobiology Decadal Survey 2023-2032 **White paper** e-id. 335; Bulletin of the American Astronomical Society, Vol. 53, Issue 4, e-id. 335 (2021)
- D5 “New Frontiers-class Uranus Orbiter: Exploring the feasibility of achieving multidisciplinary science with a mid-scale mission” Cohen, Ian ; Beddingfield, Chloe ; Chancia, Robert and 80 authors more including Pinilla-Alonso Planetary Science and Astrobiology Decadal Survey 2023-2032 **White paper** e-id. 323; Bulletin of the American Astronomical Society, Vol. 53, Issue 4, e-id. 323 (2021)
- D6 “Asteroids Inside Out: Radar Tomography” Haynes, Mark ; Virkki, Anne ; Venditti, Flaviane ; Hickson, Dylan ; Pinilla-Alonso, Noemi ; Brisset, Julie ; Benner, Lance ; Raymond, Carol ; Lazio, Joseph ; Freeman, Anthony ; Castillo-Rogez, Julie ; Asphaug, Erik ; Taylor, Patrick ; Herique, Alain ; Kofman, Wlodek ; Sava, Paul ; Pajola, Maurizio ; Lucchetti, Alice ; De Pra, Mario Nascimento ; Rivera-Valentin, Edgard Planetary Science and Astrobiology Decadal Survey 2023-2032 **White paper** e-id. 116; Bulletin of the American Astronomical Society, Vol. 53, Issue 4, e-id. 116 (2021)
- D7 “Prospects for Future Exploration of the Trans-Neptunian Region” Holler, Bryan ; Bannister, Michele T. ; Singer, Kelsi N. ; Stern, S. Alan ; Benecchi, Susan D. ; Dalle Ore, Cristina M. ; Fletcher, Leigh N. ; Guilbert-Lepoutre, Aurélie ; Kiss, Csaba ; Lacerda, Pedro ; Mandt, Kathleen E. ; Marsset, Michael ; Parker, Alex H. ; Pinilla-Alonso, Noemi ; Ragozzine, Darin ; Tapley, Mark B. ; Trujillo, Chadwick A. ; Umurhan, Orkan M. ; Yano, Hajime ; Young, Leslie A. Planetary Science and Astrobiology Decadal Survey 2023-2032 **White paper** e-id. 228; Bulletin of the American Astronomical Society, Vol. 53, Issue 4, e-id. 228 (2021)
- D8 “The importance of ground-based radar observations for planetary exploration” Rivera-Valentín, Edgard ; Taylor, Patrick A. search by orcid ; Rodriguez Sanchez-Vahamonde, Carolina ; Hickson, Dylan ; Neish, Catherine ; Brozović, Marina ; Whitten, Jennifer ; Meyer, Heather ; Busch, Michael ; Campbell, Bruce A. ; Campbell, Donald B. ; Margot, Jean-Luc ; Virkki, Anne ; Venditti, Flaviane ; Nolan, Michael C. ; Howell, Ellen S. ; Womack, Maria ; Pinilla-Alonso, Noemí Planetary Science and Astrobiology Decadal Survey 2023-2032 **White paper** e-id. 051; Bulletin of the American Astronomical Society, Vol. 53, Issue 4, e-id. 051 (2021)

- D9 “Science Opportunities offered by Mercury’s Ice-Bearing Polar Deposits” Deutsch, Ariel ; Chabot, Nancy ; Maiti, Abhisek ; and 60 couthors including N. Pinilla-Alonso . Planetary Science and Astrobiology Decadal Survey 2023-2032 **White paper** e-id. 069; Bulletin of the American Astronomical Society, Vol. 53, Issue 4, e-id. 069 (2021)
- D10 “Linking the Solar System and Extrasolar Planetary Systems with Radar Astronomy: Infrastructure for "Ground Truth" Comparison”. J. Lazio; Amber, Bonsall; M. Brozovic; J. D. Giorgini; K. ONeil; E. Rivera-Valentin; A. K. Virkki; F. Cordova; M. Busch; B. A .Campbell; P. G. Edwards; Y. Fernandez; Ed. Kruzins; N. Pinilla-Alonso; M. A. Slade; F. C. F Venditti. **Astro2020** Activities, Projects, or State of the Profession Consideration **White paper**, July 2019.
- D11 “Astro2020 Activities and Projects White Paper: Arecibo Observatory in the Next Decade”. A. Roshi, L. D. Anderson, E. Araya, D. Balser, W. Brisken, C. Brum, D. Campbell, S. Chatterjee, E. Churchwell, J. Condon, J. Cordes, F. Cordova, Y. Fernandez, J. Gago, T. Ghosh, P. F. Goldsmith, C. Heiles, D. Hickson, B. Jeffs, K. M. Jones, J. Lautenbach, B. M. Lewis, R. S. Lynch, P. K. Manoharan, S. Marshall, R. Minchin, N. T. Palliyaguru, B. B. P. Perera, P. Perillat, N. Pinilla-Alonso, D. J. Pisano, L. Quintero, S. Raizada, S. M. Ransom, F. O. Fernandez-Rodriguez, C. J. Salter, P. Santos, M. Sulzer, P. A. Taylor, F. C. F. Venditti, A. Venkataraman, A. K. Virkki, A. Wolszczan, M. Womack, and L. F. Zambrano-Marin. **Astro2020** Activities, Projects, or State of the Profession Consideration **White paper**, July 2019.
- D12 “The solar system Deep Time-Survey of atmospheres, surfaces, and rings. Key Science Program concept submitted to the US Extremely Large Telescope Program” Wong, M.H., R. Cartwright, G.S. Orton, M. Tiscareno, T. Greathouse, D. Trilling, K.M. Sayanagi, N. Chanover, A. Conrad, I. de Pater, E. Gaidos, M. Lucas, K. Meech, N. Pinilla-Alonso, M.E. Schwamb. **Astro2020 Science White Paper**. March 2019.
- D13 “Triggered High-Priority ELT Observations of Dynamic Solar System Phenomena. Key Science Program concept submitted to the US Extremely Large Telescope Program” Chanover, N., M.H. Wong, T. Greathouse, D. Trilling, A. Conrad, I. de Pater, E. Gaidos, R. Cartwright, M. Lucas, K.M. Sayanagi, K. Meech, G.S. Orton, N. Pinilla-Alonso, M.E. Schwamb, M. Tiscareno, C. Veillet. **Astro2020 Science White Paper**. March 2019.
- D14 “Origins Survey of Primordial Relics: Compositional Variation across the Solar System. Key Science Program concept submitted to the US Extremely Large Telescope Program” Trilling, D., M.H. Wong, K.M. Sayanagi, T. Greathouse, R. Cartwright, N. Chanover, A. Conrad, I. de Pater, E. Gaidos, M. Lucas, K. Meech, G.S. Orton, N. Pinilla-Alonso, M.E. Schwamb, M. Tiscareno, A. Otarola. **Astro2020 Science White Paper**. March 2019.
- D15 “Comets and minor planets: the importance of the small things” for **The Large UV Optical Infrared Surveyor 2017 Interim Report** Pinilla-Alonso, N & Alvarez-Candal, A.

- D16 “Spectroscopy of Pluto, 380-930 Nm at Six Longitudes” **NASA Technical Reports Server (NTRS)** D.P. Cruikshank, N. Pinilla-Alonso, V. Lorenzi, W. Grundy, J. Licandro, R. P. Binzel
- D17 “Goals and Priorities for the Study of Centaurs and Trans-Neptunian Objects in the Next Decade”. Small Bodies Community **White Paper** for the Planetary Science Decadal Survey of the Science Academy in the USA. Yan Fernandez and 36 coauthors (including N. Pinilla-Alonso). (2009).
- D18 “Exploration Strategy for the Ice Dwarf Planets 2013-2022”. Small Bodies Community **White Paper** for the Planetary Science Decadal Survey of the Science Academy in the USA. William Grundy and William McKinnon and 31 coauthors (including N. Pinilla-Alonso). (2009).
- D19 “Propiedades Superficiales de los Planetas Enanos del Cintur’on trans-Neptunianos”. Noemi Pinilla-Alonso. **PhD Dissertation**. Published by Servicio de Publicaciones de la Universidad de la Laguna. (2009).
- D20 “Desarrollo de un sistema automático de medidas de vapor de agua basado en tecnología GPS. Propiedades Infrarojas del Observatorio del Roque de los Muchachos”. Instituto Astrofísico de Canarias Library. Noem’i Pinilla-Alonso, **Master Dissertation**. (2003).

### 3.4 Unrefereed Publications and Conference Abstracts as First Author

- U1 N. Pinilla-Alonso ”DiSCo: Discovering the Surface Composition of TNOs, Embryos of Planetary Formation” at the JWST Cycle 1 Large and Treasury Splinter Meeting of the AAS 239 Winter Meeting. **Invited Oral**
- U2 N. Pinilla-Alonso, F. Cordova, and J. Brisset “The Arecibo Observatory as a career incubator” AAS 239 Winter Meeting - Special Session on the Arecibo Observatory Education and Outreach Potential. **Oral Invited**
- U3 Pinilla-Alonso, N “DiSCo-TNOs: The icy embryos of the formation of the Solar System”. XI Meeting of the Planetary Science Workshop, 2022 **Oral Invited Presentation**
- U4 U121 Pinilla-Alonso, N “DiSCo-TNOs: Digging up fossils in the Solar System thanks to the James Webb Space Telescope” Annual Meeting of the Mexican Geophysical Union (RAUGM), 2021. **Plenary Invited**
- U5 Pinilla-Alonso, N “Update: The Arecibo Observatory” a KISS (Keck Institute for Space Studies) Workshop: The Next-Generation Ground-Based Planetary Radar - Part II. May 10 - 14, 2021 California Institute of Technology - Pasadena, 2021. **Invited Oral Contribution**
- U6 Pinilla-Alonso, N ; Popescu, M.; Licandro, J. ; Duffard, R. ; Castro, J. ; Reyes, M. ; Lehner, M.; Fernández-Valenzuela, E. ; Grundy, W. ; Cabrera-Lavers, A. ; Hidalgo-Soto, D. ; Rizos, J. ; Morate, D. “The irregular limb of Manoetius South Pole and Improved Orbital Solution



- (extended analysis)” 52 AAS Division of Planetary Science meeting, id. 401.03. Bulletin of the American Astronomical Society, Vol. 52, No. 6 e-id 2020n6i401p03, 2020
- U7 N. Pinilla-Alonso: “The Road Map for the Arecibo Observatory”. Public Surveys and new instrumentation for Calar Alto Observatory Workshop, Granada, March 2020.
- U8 N. Pinilla-Alonso: “Arecibo Management Update”. NANOGrav team meeting, UCF, March 2020. **Invited Oral Contribution**
- U9 N. Pinilla-Alonso “Arecibo Observatory Management Update 2019 - 2020”. Small Bodies Assessment Group, January 2020, Pasadena, USA. **Invited Oral Contribution**
- U10 N. Pinilla-Alonso. “Near-Earth Asteroid risk mitigation strategy in the next decade: from Earth-based facilities to DART and Hera space missions”. Spanish Astronomical Society, La Laguna, Spain, 2020. **Invited Plenary Contribution**
- U11 N. Pinilla-Alonso. “Arecibo Observatory: One Year of New Management Supporting Planetary Radar Observations”. First TeamRadarCon workshop, LPI, USA. July, 2019. **Invited Oral Contribution**
- U12 N. Pinilla-Alonso, M. Popescu, E. Fernández-Valenzuela, J. Licandro, R. Duffard, J. Castro, R. M. Murillo, W. Grundy, M. Reyes-Ruiz and J. Silva. “The hypnotic dance of Patroclus and Menoetius: Ground-based observations of their 2017-2018 mutual event season” 50th meeting of the Division for Planetary Sciences (DPS), Knoxville, TN, USA. October, 2018.
- U13 N. Pinilla-Alonso, J. de León, H. Campins, J. Licandro, D. Morate, M. De Prá, V. Lorenzi, G. Sarid. “The PRIMitive Asteroids Spectroscopic Survey Library: PRIMASS-L”. XXX IAU General Assembly. Viena (Austria). August, 2018 (Poster)
- U14 Pinilla-Alonso, N. “Get a glimpse on what is coming on the study of large Transneptunians for the next decade”. The transneptunian Solar System Scientific Workshop, Portugal, 2018 **Invited Oral Contribution**
- U15 Pinilla-Alonso, N., Fernandez-Valenzuela, E., Licandro, J., Duffard, R., Popescu, M., and Grundy, W. “Detection of Patroclus-Menoetius events in the Winter of 2017”. The Transneptunian Solar System Scientific Workshop, Portugal, 2018 (Oral)
- U16 Pinilla-Alonso, N., de León, J., Morate, D., De Prá, M., Lorenzi, V., Licandro, J., Campins, H., and Alí-Lagoa, V. “PRIMitive Asteroids Spectroscopic Survey - PRIMASS: Current Status”. 49th meeting of the Division for Planetary Sciences (DPS) of the American Astronomical Society. Provo, UT, USA. October, 2017. (Poster)
- U17 Pinilla-Alonso, N. “How JWST will bring light to the nature of trans-Neptunian objects through GTO observations”. 230th American Astronomical Society, AAS Meeting, id403.02, June 2017 **Invited Oral Contribution**

- U18 Pinilla-Alonso, N “Exploring the Solar System with JWST: Unveiling the Nature of Small Bodies”. Asteroids, Comets, Meteors 2017. Montevideo, Uruguay, April 2017. **Plenary Invited**
- U19 N. Pinilla-Alonso, N, J. de León, D. Morate, M. De Pra, J. Licandro, H. Campins, V. Lorenzi, Z. Landsman, V. Alí-Lagoa. “Primitive Asteroids Spectroscopic Survey - PRIMASS: Current Status”. Asteroids, Comets, Meteors 2017. Montevideo, Uruguay, April 2017. (Poster).
- U20 Pinilla-Alonso, N. “The new Solar System: Are you ready for James Webb Space Telescope?” Spanish Astronomical Society, Bilbao, Spain, 2016. **Invited Oral Contribution**
- U21 Pinilla-Alonso, N et al. “Digging up ice-rocks: clues to our origin frozen in the outer Solar System” 48th meeting of the Division for Planetary Sciences (DPS) and 11th European Planetary Science Congress (EPSC) #2567516 (2016) (Poster)
- U22 Pinilla-Alonso, N. “Icy Dwarf Planets: Colored popsicles in the Solar System” IAU General Assembly, Meeting 29, id.2258290, (2015) Published as Astronomy in Focus, Volume 1, Focus Meeting 9, XXIXth IAU General Assembly. Cambridge University Press, doi:10.1017/S1743921316002970. **Invited Oral Contribution**
- U23 Pinilla-Alonso, Noemi; Emery, Joshua P; Cruikshank, Dale P; Protopapa, Silvia; Grundy, Will; Lisse, Carey M.; Bauer, James; Fernandez, Yanga; Stansberry, John; Buratti, Bonnie J. “Diurnal and Seasonal Variations of Pluto’s surface composition through Spitzer Space telescope eyes” American Astronomical Society, DPS meeting 46, 404.0 (2014) (Oral)
- U24 N. Pinilla-Alonso; H. Campins; V. Lorenzi, J. de Leon; Z. Landsman; J. Licandro and V. Ali-Lagoa. “Near-infrared spectroscopy of asteroids in the Polana-family region: Where are the Eulalias?”. Asteroids, Comets and Meteors. Helsinki, (2014). (Oral)
- U25 Pinilla-Alonso, N; Emery, J. P; Trilling, D.; Cruikshank, D. P; Fernandez, Y.; Dalle Ore, C. M.; Stansberry, J. A. “Preliminary Results On The Surface Composition Of Centaurs From IRAC/Spitzer Photometry”. American Astronomical Society, DPS meeting (2013) 45, 414.05. (Poster)
- U26 N. Pinilla-Alonso, J. Emery and D. P. Cruikshank “IRAC/Spitzer Photometry of the Pluto/Charon System”. Conference: The Pluto System on the Eve of Exploration by New Horizons: Perspectives and Predictions. APL, Laurel, Maryland, July, 2013. (Poster)
- U27 N. Pinilla-Alonso “Near Infrared Spectroscopy of the Polana Family (-lies)” Workshop: ASSG2013: Asteroid Spectroscopy in Support of Gaia. Nice, France, June 2013. (Oral)
- U28 Pinilla-Alonso, N. “Reservas Heladas del Sistema Solar: Informaci’ón Congelada en el Tiempo”. X Spanish Astronomical Society Scientific Meeting, Valencia, 2012. **Invited Oral Contribution**

- U29 Pinilla-Alonso, N.; Alvarez-Candal, A.; Melita, M.; Lorenzi, V.; Licandro, J.; Carvano, J. M.; Lazzaro, D.; Carraro, G.; Ali-Lagoa, V.; Costa, E.; Hasselmann, P. H. “Study of the surface composition and dynamical evolution of two retrograde objects in the outer Solar System.” European Planetary Science Congress 2012, Madrid, Spain. id. EPSC2012-662. (Oral)
- U30 N. Pinilla-Alonso. “ Breaking News on the Solar System”. Particles, Astrophysics and Cosmology- AsturPAC11, Avilés, Spain (2011). **Invited Oral Contribution**
- U31 N. Pinilla-Alonso and Josep M. Trigo-Rodríguez. “ Volatiles: The Shy Ingredient in The Recipe of Atmospheres Around Dwarf Planets”. Workshop (COST CM-0805): Nitrogen in planetary systems: the early evolution of the atmospheres of terrestrial planets. (2011) (Poster)
- U32 N. Pinilla-Alonso, T.L. Roush, G. Marzo, D. P. Cruikshank and C. M. Dalle Ore. “The distribution of CO<sub>2</sub> over the surface of Iapetus revealed from statistical clustering of a VIMS mosaic.”. DPS-EPSC 2011, Nantes, France. (Poster)
- U33 N. Pinilla-Alonso and G. P. Marzo. “Iapetus surface variability revealed from statistical clustering of a VIMS mosaic”. Highlights of Spanish Astrophysics VI, Proceedings of the IX Scientific Meeting of the Spanish Astronomical Society (SEA), Madrid, September 13 - 17, 2010.
- U34 Pinilla-Alonso, N; Moth'e-Diniz, T.“Asteroidal Families in the Outer Belt Through the Eyes of Goodman @ SOAR Telescope”. FiSSS2011, Maresias, Brazil. (Poster)
- U35 N. Pinilla-Alonso. “Haumea, an intriguing Water Ice Surface in the transNeptunian Belt”. On the Nature, Origin, and Evolution of Water on Airless Bodies, AGU Fall Meeting, P13E-04. (2010) (Oral)
- U36 N. Pinilla-Alonso; G.A. Marzo; T. L. Roush; D. Cruikshank; C. M. Dalle Ore. “Composición superficial de Júpetero, la luna de las dos caras”. IX Reunión Científica de la SEA, Madrid, (2010). (Oral)
- U37 N.Pinilla-Alonso. Iapetus and Eris: two intriguing cases related to volatile presence on the surface of icy objects in the Solar System. Seminar at IAC, 28 September 2010. (Seminar)
- U38 N. Pinilla-Alonso, H. Campins, J Licandro. “The Puzzling Icy Nature of Asteroid 24 Themis”. Organic Material in Planetary Systems: nature or nurture?, Paris, (2010). (Oral)
- U39 N. Pinilla-Alonso, L. Roush, G. Marzo, C. M. Dalle Ore, D. P. Cruikshank “Statistical Clustering and Compositional Modeling of Iapetus VIMS Spectral Data”. abstract. AGU Fall Meeting, (2009) (Poster)

- U40 Pinilla-Alonso, N; Licandro, J; Gil-Hutton, R & Brunetto, R. “Haumea’s buddies: The concern of water-ice surfaces in the TNb”. abstract IAU Symp. 263. (2009) (Oral)
- U41 N. Pinilla-Alonso. “The biggest among the smallest icy bodies”, Singapore (2009). **Invited Oral Contribution**
- U42 N. Pinilla-Alonso, J. Licandro, R. Brunetto & R. Gil-Hutton. “Water Ice Rich and Carbon Depleted TNOs and the Origin of the Carbon Depleted Comets?”. *Astrobiology*. 8(2): 339-343. (2008) (Poster)
- U43 Pinilla-Alonso, N; Brunetto, R; Licandro, J; Gil-Hutton, R & Campins, H. “The Homogeneous Surface of 2003 EL<sub>61</sub>, A Snowball In The TNb”. AAS, 39 DPS meeting, 40.05, Bulletin of the American Astronomical Society, v39, p510. (2007) (Oral)
- U44 N. Pinilla-Alonso, J. Licandro, R. Gil-Hutton, R. Brunetto. “Is there a carbon-depleted population in the trans-neptunian belt?”. EPSC Abstracts, Vol. 2. (2007) (Oral)
- U45 Pinilla-Alonso, N; Licandro, J & Gil-Hutton, R. “The Surface Of Pluto-twin And Charon-like Objects”. AAS, 38 DPS meeting, 40.03, Bulletin of the American Astronomical Society, v38, p 556. (2006) (Oral)
- U46 Pinilla-Alonso, N., Licandro, J., Brunetto, R. & Strazzulla, G. “Charon Like Objects”.TNOs: Physical and Dynamical Properties, Catania, Italia. (2006) (Oral)
- U47 Pinilla-Alonso, N. & Licandro, J. “Modeling the surface of Centaurs”. TNOs: Physical and Dynamical Properties, Catania, Italia. (2006) (Poster)
- U48 Pinilla-Alonso,N; Licandro,J & De Leon, J. “(50000) Quaoar: Crystalline Water Ice and Minor constituents”. IAU Symp. n229, ACM, Buzios. (2005) (Oral)
- U49 Pinilla-Alonso, N.; Licandro, J & Campins, H. “Mineralogical analysis of two different kind of icy surfaces in the trans-neptunian belt, TNOs (50000) Quaoar and 2002 TX<sub>300</sub>”. AAS, DPS meeting 36, 11.07; Bulletin of the American Astronomical Society, Vol. 36, p.1088. (2004) (Oral)
- U50 Pinilla, N & Licandro, J. “Mineralogical analysis of the icy surface of TNOs (50000) Quaoar and 2002 TX<sub>300</sub>”. 35th COSPAR Scientific Assembly, Paris, France, 2004. 2004cosp.meet.3330P (2004) (Poster)
- U51 N. Pinilla, M. Kidger & J. Espinosa. “Operation of the IAC GPS Water Vapour Monitor in Observatory Conditions”. ASP Conference Series, 266, 216. (2002)
- U52 N. Pinilla. M.R. Kidger and J.M Rodr’iguez-Espinosa. “GPS Monitoring of Water Vapor at the GTC site”. 1<sup>er</sup> Encuentro, Ciencia con GTC. Granada, España. Rev. Mex. Astron. & Astroph. (2002)

- U53 Pinilla Alonso, N. “Un Universo de Cine”. II Congreso sobre Comunicación Social de la Ciencia, Valencia. (2001) (Oral)

### 3.5 Unrefereed Publications and Conference Abstract as Co-author

(\* ) means paper lead by a mentored or supervised student or post-doctoral researcher)

- U54 H. Medeiros; J. de Leon; J. Licandro; M. Popescu; N. Pinilla-Alonso; Arecibo Planetary Team ; Neorocks Team. “Physical properties of 5 near-Earth asteroids observed with the Arecibo Planetary Radar within NEOROCKS project.” 53 AAS Division of Planetary Science meeting, id. 303.01. Bulletin of the American Astronomical Society, Vol. 53, No. 7 e-id 2021n7i303p01, 2021
- U55 Fernandez-Valenzuela, E. ; Ortiz, J. L. ; Morales, N. ; Santos-Sanz, P. Duffard, R. ; Aznar, A. ; Lorenzi, V. ; Pinilla-Alonso, N. ; Lellouch, E. “VizieR Online Data Catalog: LC of the TNO Varuna (Fernandez-Valenzuela+, 2019)” VizieR On-line Data Catalog: J/ApJ/883/L21, 2021
- U56 Ortiz Ceballos, K. N. ; Colón Cesaní, A. H. ; Howell, E. S. ; Méndez, A. ; Fernandez, Y. R. ; Lovell, A. J. ; Schambeau, C. A. ; Pinilla-Alonso, N. ; Womack, M. ; Ferrer Imbert, G. M. “Constraints on the Water-Production Rates of Interstellar Comet 2I/Borisov from Arecibo Radio OH Observations”, 2021
- U57 Arredondo, A. ; Campins, H. ; Pinilla-Alonso, N. ; de Leon, J. ; Lorenzi, V. ; Morate, D. ; Rizos, J. L. ; De Pra, M. “Spectroscopic Survey of the Inner Belt Primitive Background Population”, 2021
- U58 Licandro, J. ; Pinilla-Alonso, N. ; de Leon, J. ; Moreno, F. ; de la Fuente Marcos, C. ; de la Fuente Marcos, R. ; Cabrera Lavers, A. “Observations of Comet P/2019 LD2 (ATLAS) with the 10-m Gran Telescopio Canarias (GTC)” 52 AAS Division of Planetary Science meeting , id. 404.06. Bulletin of the American Astronomical Society, Vol. 52, No. 6 e-id 2020n6i404p06, 2020
- U59 Santana, M. E. ; Carvano, J. ; de Prá, M. ; Licandro, J. ; de La Fuente Marcos, R. ; Schambeau, C. ; Pinilla-Alonso, N. ; Feliciano, A. “Physical characterization of hyperbolic comet C/2017 U7” 52 AAS Division of Planetary Science meeting, id. 319.04. Bulletin of the American Astronomical Society, Vol. 52, No. 6 e-id 2020n6i319p04, 2020
- U60 (\* ) Souza-Feliciano, A. ; Pinilla-Alonso, N. ; Alvarez-Candal, A. ; Emery, J. ; Carvano, J. “Compositional Analysis of Haumea and Varuna with Spitzer Space Telescope” 52 AAS Division of Planetary Science meeting, id. 307.05D. Bulletin of the American Astronomical Society, Vol. 52, No. 6 e-id 2020n6i307p05D, 2020

- U61 Arredondo, A. ; Campins, H. ; Pinilla-Alonso, N. ; de Leon, J. ; Morate, D. “Spectroscopy of the inner belt primitive asteroid background population” 52 AAS Division of Planetary Science meeting, id. 107.01. Bulletin of the American Astronomical Society, Vol. 52, No. 6 e-id 2020n6i107p01, 2020
- U62 (\*) De Pra, M. ; Pinilla-Alonso, N. ; Carvano, J. ; Licandro, J. ; Morate, D. ; Lorenzi, V. ; de Leon, J. ; Campins, H. ; Mothe-Diniz, T. “A Comparative Analysis of the Outer Belt Primitive Families” 52 AAS Division of Planetary Science meeting, id. 101.02. Bulletin of the American Astronomical Society, Vol. 52, No. 6 e-id 2020n6i101p02, 2020
- U63 Licandro, Javier ; de Leon, Julia ; Moreno, Fernando ; de la Fuente Marcos, Carlos ; de la Fuente Marcos, Raul ; Cabrera Lavers, Antonio ; Lara, Luisa ; Pinilla-Alonso, Noemi ; de Pra, Mario ; de Souza-Feliciano, Ana Carolina ; Geier, Stefan “The activity of the Jupiter co-orbital comet P/2019 LD2 (ATLAS) observed with the 10.4m GTC.”, 2020 14th Europlanet Science Congress 2020, held virtually, 21 September 2020 - 9 October, 2020. Online at <https://www.epsc2020.eu/>, id. EPSC2020-636, 2020
- U64 R. J. Cartwright, J. P. Emery, N. Pinilla-Alonso, W. M. Grundy, and D. P. Cruikshank. “Probing the regoliths of the classical Uranian satellites using near-infrared telescope observations: CO<sub>2</sub> ice deposits mantled by a veneer of tiny H<sub>2</sub>O ice grains?” American Geophysical Union, Fall Meeting 2019, abstract P32A-08, 2019.
- U65 J. L. Rizos, J. de León, N. Pinilla-Alonso, J. Licandro, H. Campins, M. De Prá, V. Lorenzi, and D. Morate. “Primitive Asteroids Spectroscopic Survey - PRIMASS: Current Status” Ciencias Planetarias y Exploración del Sistema Solar, CPES6 Congress, held 27-29 May, 2019 at INTA, Madrid, Spain, Abstract Book, p.13, 2019.
- U66 D. Morate, J. de Leon, M. de Pra, J. Licandro, N. Pinilla-Alonso, H. Campins, A. Arredondo, J. Carvano, D. Lazzaro, and A. Cabrera-Lavers. “VizieR Online Data Catalog: Spectra of 73 asteroids (Morate+, 2019)” VizieR On-line Data Catalog: J/A+A/630/A141. Originally published in: 2019A&A...630A.141M, 2019.
- U67 (\*) E. Fernández-Valenzuela, N. Pinilla-Alonso, J. Stansberry, J. Emery, W. Perkins, and C. Van Laerhoven. “A compositional study of trans-Neptunian objects using photometric data beyond 2.2  $\mu\text{m}$ ” EPSC-DPS Joint Meeting 2019, held 15-20 September 2019 in Geneva, Switzerland, id. EPSC-DPS2019-1849, 2019.
- U68 D. Morate, J. De León, M. De Prá, J. Licandro, N. Pinilla-Alonso, H. Campins, A. Arredondo, J. Carvano, D. Lazzaro, and A. Cabrera-Lavers. “The last pieces of the primitive inner belt puzzle: Klio, Chaldaea, Chimaera, and Svea” EPSC-DPS Joint Meeting 2019, held 15-20 September 2019 in Geneva, Switzerland, id. EPSC-DPS2019-1624, 2019.
- U69 M. Popescu, J. de Leon, O. Vaduvescu, J. Licandro, F. Duris, J. L. Rizos, I. L. Boaca, and N. Pinilla-Alonso. “Spectral and spectro-photometric characterization of NEOs at the

- Canary Islands Observatories” EPSC-DPS Joint Meeting 2019, held 15-20 September 2019 in Geneva, Switzerland, id. EPSC-DPS2019-1335, 2019.
- U70 J. de Leon, N. Pinilla-Alonso, G. Sarid, M. De Prá, and V. Lorenzi. “PRIMitive Asteroids Spectroscopic Survey Library - PRIMASS-L: latest results” EPSC-DPS Joint Meeting 2019, held 15-20 September 2019 in Geneva, Switzerland, id. EPSC-DPS2019-1147, 2019.
- U71 (\*) M. De Pra, J. Licandro, N. Pinilla-Alonso, V. Lorenzi, E. Rondon, J. Carvano, D. Morate, and J. De Leon “The spectroscopic properties of the Lixiaohua Family, cradle of Main-Belt comets” EPSC-DPS Joint Meeting 2019, held 15-20 September 2019 in Geneva, Switzerland, id. EPSC-DPS2019-310, 2019.
- U72 A. Arredondo, V. Lorenzi, N. Pinilla-Alonso, H. Campins, A. Malfavon, J. de Leon, D. Morate “Spectroscopic Differences Between High-Inclination Primitive Inner Belt Asteroid Families”, EPSC-DPS Joint Meeting 2019, held 15-20 September 2019 in Geneva, Switzerland, id. EPSC-DPS2019-257, 2019.
- U73 C. Schambeau, Y. Fernandez, M. De Pra, M. Womack, N. Pinilla-Alonso, G. Sarid, M. Micheli, L. Woodney, S. Ieva, N. Samarasinha, E. Mazzotta; E. Dotto, D. Perna, A. Bosh, M. J. Levine and, E. Stephen. “Cbet 4652: 20190717: Comet 39P/OTERMA” Central Bureau for Astronomical Telegrams, 4652, 1, July, 2019.
- U74 (\*) A. C. Souza-Feliciano, M. N. De Prá, A. Alvarez-Candal, N. Pinilla-Alonso, E. Fernández-Valenzuela, J. De León, P. Arcoverde, E. Rondón, and, D. Lazzaro. “Visible Analysis of NASA’s Lucy Mission Targets 3548 Eurybates, 15094 Polymele, 21900 Orus, and 52246 Donaldjohanson” 50th Lunar and Planetary Science Conference, held 18-22 March, 2019 at The Woodlands, Texas. LPI Contribution No. 2132, id.1636, 2019
- U75 R. Cartwright, D. P. Cruikshank, J. P. Emery and N. Pinilla-Alonso. “Does red dust from retrograde irregular satellites accumulate on the large moons of Uranus?” American Geophysical Union, Fall Meeting 2018, abstract P31B-07, 2018
- U76 H. Campins, N. Pinilla-Alonso, J. de Alí, and D. Morate “Predicting Space Weathering Effects on Primitive Asteroids (101955) Bennu and (162173) Ryugu” 50h meeting of the Division for Planetary Sciences (DPS), Knoxville, TN, USA. Oct. 2018. id.508.04, 2018
- U77 R. Cartwright, D. P. Cruikshank, J. Emery and N. Pinilla-Alonso. “Do the Large Moons of Uranus have “Fluffy” Regoliths Dominated by Small Grains?” 50h meeting of the Division for Planetary Sciences (DPS), Knoxville, TN, USA. Oct. 2018. id.407.08, 2018
- U78 W. Perkins, J. Emery, D. Cruikshank, C. Dalle Ore, Y. Fernandez, K. Noll, N. Pinilla-Alonso, J. Stansberry and D. Trilling. “A Database of Fluxes and Albedos of Kuiper Belt Objects at 3.6 and 4.5  $\mu\text{m}$  from Observations with the Spitzer Space Telescope” 50h meeting of the Division for Planetary Sciences (DPS), Knoxville, TN, USA. Oct. 2018 id.315.06, 2018

- U79 (\*) M. N. De Prá, J. Carvano, D. Morate, N Pinilla-Alonso and J. Licandro. “CANA: A Python package for the analysis of hydration in asteroid spectroscopic and spectrophotometric data”. 50h meeting of the Division for Planetary Sciences (DPS), Knoxville, TN, USA. Oct. 2018. id.315.02, 2018
- U80 A. Arredondo, N. Pinilla-Alonso, H. Campins, A. Malfavon, V. Lorenzi, J. de Leon, and D. Morate. “Initial Results from Near-infrared Spectroscopy of the Klio and Sulamitis Primitive Inner-belt Families: a New "Klio-like" Compositional Group”. 50h meeting of the Division for Planetary Sciences (DPS), Knoxville, TN, USA. Oct. 2018. id.310.06, 2018
- U81 J. de Leon, N. Pinilla-Alonso, H. Campins, J. Licandro, D. Morate, V. Lorenzi, M. De Prá, J. L. Rizos and G. Sarid. “The PRIMitive Asteroids Spectroscopic Survey Library: PRIMASS-L”. 50h meeting of the Division for Planetary Sciences (DPS), Knoxville, TN, USA. Oct. 2018. id.310.05
- U82 J. de León, N. Pinilla-Alonso, H. Campins, J. Licandro, & PRIMASS Team “PRIMitive Asteroids Spectroscopic Survey - PRIMASS: Current Status”. XXX IAU General Assembly. Viena (Austria). 20 - 31 de agosto de 2018
- U83 H. Medeiros, J de Leon, D. Lazzaro, E. Rondon, F. Monteiro, M. Popescu, N. Pinilla-Alonso, P. Arcoverde, D. Morate, T. Rodrigues, V. Lorenzi, and Z. Landsman “Mineralogical and photometric analysis of V-type asteroids” European Planetary Science Conference, 2018. Differentiated small bodies: a new perspective. Berlín, Germany. id.EPSC2018-1264, 2018
- U84 J. de León, N. Pinilla-Alonso, H. Campins, J. Licandro, D. Morate. Charla Invitada (Keynote Speaker) “Ground-based spectroscopy in the visible and near-infrared to extract mineralogical composition of Asteroids”. Asteroid Science Intersections with In-Space Mine Engineering (ASIME). Luxemburgo. 16 ? 17 de abril de 2018
- U85 (\*) De Pra, M., Pinilla-Alonso, N., Licandro, J., de Leon, J., Campins, H., Morate, D., Ali-Lagoa, V., Lorenzi, V., and Carvano, J. ”PRIMitive Asteroids Spectroscopic Survey”. IX Taller De Ciencias Planetarias, Argentina, 2018
- U86 (\*) Fernandez-Valenzuela, E., Pinilla-Alonso, N., Emery, J., Stansberry, J., Muller, T., and Grundy, W. “Compositional Study of TNOs beyond 2.2 microns in preparation for JWST”. The Transneptunian Solar System Scientific Workshop, Portugal, March 2018.
- U87 Licandro, J., De Pra, M., Pinilla-Alonso, N. and de Leon, J. “Visible and near-infrared spectra of Hilda and Cybele asteroids in the framework of PRIMASS”, The Transneptunian Solar System Scientific Workshop, Portugal, 2018.
- U88 (\*) M. Lucas, J. Emery, N. Pinilla-Alonso, S. S. Lindsay, E. M. MacLennan, R. J. Cartwright, V. Reddy, J. A. Sanchez, C. A. Thomas, and V. Lorenzi. “Hungaria Asteroid Region Telescopic



- Spectral Survey (HARTSS) II: Spectral Homogeneity Among Hungaria Family Asteroids”. 49th meeting of the Division for Planetary Sciences (DPS), 49, id.208.07, 2017
- U89 (\*) Cartwright, R., Emery, J. P., Pinilla-Alonso, N. “Red material on the large moons of Uranus: Dust from the irregular satellites?” 49th meeting of the Division for Planetary Sciences (DPS), 49, id.210.02, 2017
- U90 (\*) M. Lucas, J. Emery, N. Pinilla-Alonso, S. S. Lindsay, V. Reddy, J. A. Sanchez, C. A. Thomas, R. J. Cartwright, E. M. MacLennan, and V. Lorenzi. “Hungaria Asteroid Region Telescopic Spectral Survey (HARTSS) II: Spectral Homogeneity Among Hungaria Family Asteroids” Asteroids, Comets, Meteors 2017. Uruguay, April 2017.
- U91 J. de León, M. Popescu, V. Lorenzi, N. Pinilla-Alonso, Z. Landsman and D. Morate. “Mineralogy of V-type Asteroids Outside the Vesta Family Identified Using the MOVIS catalog” Asteroids, Comets, Meteors 2017. Uruguay, April 2017.
- U92 (\*) M. De Pra, N. Pinilla-Alonso, J. Licandro, H. Campins, J. De León, T. Mothe-Diniz and J. Carvano. PRIMASS gets a glimpse of the outer main belt: Comparing volatile-rich families and groups. Asteroids, Comets, Meteors 2017. Uruguay, April 2017.
- U93 D. Morate, J. de León, M. De Prá, J. Licandro, N. Pinilla-Alonso, H. Campins, V. Ali-Lagoa, A. Cabrera-Lavers. “Hydration in the Primitive Collisional Families of the Inner Main Belt”. Asteroids, Comets, Meteors 2017. Uruguay, April 2017.
- U94 M. Devogele, P. Tanga, A. Cellino, P. Bendjoya, J.-P. Rivet, J. Surdej, S. Bagnulo, S. J. Bus, G. Borisov, H. Campins, B. Carry, J. Licandro, W. Mc Neil, N. Pinilla-Alonso, J.M. Sunshine, D. Vernet. “Spectroscopic and Polarimetric Survey of L-type Asteroids” Asteroids, Comets, Meteors 2017. Uruguay, April 2017.
- U95 (\*) V. Lorenzi, N. Pinilla-Alonso, J. Licandro, D. P. Cruikshank, W. M. Grundy, R. P. Binzel, and J. P. Emery. “Follow-Up of the Degree of Variation of Pluto’s Surface from Ground-based Telescope” Asteroids, Comets, Meteors 2017. Uruguay, April 2017.
- U96 A. Alvarez-Candal, N. Pinilla-Alonso, A.C. Souza-Feliciano, J.L. Ortiz, and R. Duffard. “The Absorption Features of the trans-Neptunian Object Makemake. Asteroids, Comets, Meteors 2017. Uruguay, April 2017.
- U97 David Morate; Noemi Pinilla-Alonso; Julia de León; Humberto Campins; Vania Lorenzi; Javier Licandro “PRIMitive Asteroids Spectroscopic Survey - PRIMASS: Current State” 48th meeting of the Division for Planetary Sciences (DPS) and 11th European Planetary Science Congress (EPSC) #2568329 (2016)
- U98 (\*) Melton; Joshua P. Emery; Noemi Pinilla-Alonso; Michael Mommert; Cassandra Lejoly; David E. Trilling “Photometry of Scattered Disk Objects at 3.6 and 4.5  $\mu\text{m}$ ”, 48th meeting of

- the Division for Planetary Sciences (DPS) and 11th European Planetary Science Congress (EPSC) #2568301 (2016)
- U99 Maxime Devogele; Paolo Tanga; Philippe Bendjoya; Jean-Pierre Rivet; Jean Surdej; Schelte J. Bus; Jessica M. Sunshine; Alberto Cellino; Humberto Campins; Javier Licandro; Noemi Pinilla-Alonso; Benoit Carry “Linking CAI abundance to polarimetric response in a population of ancient asteroids” 48th meeting of the Division for Planetary Sciences (DPS) and 11th European Planetary Science Congress (EPSC) #2557567 (2016)
- U100 (\*) Michael P. Lucas; Joshua P. Emery; Noemi Pinilla-Alonso; Sean S. Lindsay; Vania Lorenzi “Hungaria Asteroid Region Telescopic Spectral Survey (HARTSS): Stony Asteroids Abundant in the Background and Family Populations” 48th meeting of the Division for Planetary Sciences (DPS) and 11th European Planetary Science Congress (EPSC) #2569060 (2016)
- U101 (\*) MacLennan, E. M.; Emery, J. P.; Lucas, M. P.; Pinilla-Alonso, N. “Assessment and Characterization of Space Weathering Styles on Asteroid Surfaces”. Space Weathering of Airless Bodies: An Integration of Remote Sensing Data, Laboratory Experiments and Sample Analysis Workshop, 2-4 November, 2015. LPI Contribution No. 1878, p.2033, 2015
- U102 (\*) Cartwright, Richard J.; Emery, Joshua P.; Lucas, Michael P.; Pinilla-Alonso, Noemi; Trilling, David E.; Rivkin, Andy S. “Dark material on the classical Uranian satellites: What is it and where did it come from?”. American Astronomical Society, DPS meeting 47, id.411.02, 2015
- U103 Morate, David; de León, Julia; De Prá, Mário; Licandro, Javier; Cabrera-Lavers, Antonio; Campins, Humberto; Pinilla-Alonso, Noemí; Alí-Lagoa, Víctor. “Compositional study of asteroids in the Erigone collisional family using visible spectroscopy at the 10.4m GTC” American Astronomical Society, DPS meeting 47, id.213.21, 2015
- U104 (\*) Lucas, Michael P.; Emery, Joshua P.; Pinilla-Alonso, Noemi; Lindsay, Sean S.; Lorenzi, Vania. “A Near-Infrared Spectral Survey of Hungaria Region Asteroids: Compositionally Diverse Neighbors of the Terrestrial Planets” American Astronomical Society, DPS meeting 47, id.213.16, 2015
- U105 (\*) Melton, Chad; Emery, Joshua P.; Pinilla-Alonso, Noemi; Mommert, Michael; Lejoly, Cassandra; Trilling, David E. “Photometry of Scattered Disk Objects at 3.6  $\mu\text{m}$  and 4.5  $\mu\text{m}$ ”. American Astronomical Society, DPS meeting 47, id.211.04, 2015
- U106 (\*) Lorenzi, Vania; Pinilla-Alonso, Noemi; Emery, Joshua P.; Licandro, Javier; Cruikshank, Dale P.; Grundy, Will; Binzel, Richard P. “The visible spectrum of Pluto: secular and longitudinal variation”. American Astronomical Society, DPS meeting 47, id.210.08, 2015

- U107 Lejoly, Cassandra; Mommert, Michael; Trilling, David; Pinilla-Alonso, Noemi; Emery, Josh; Melton, Chad; McCarthy, Don; Kulesa, Craig. “Near-Infrared and Optical colors of Trans-Neptunian Objects and Centaurs from Ground-Based Observations in Support of Spitzer Observations”, American Astronomical Society, DPS meeting 47, id.203.02., 2015
- U108 de León, Julia; Pinilla-Alonso, Noemi; Campins, Humberto; Lorenzi, Vania; Licandro, Javier; Morate, David; Tanga, Paolo; Cellino, Alberto; Delbo, Marco. “PRIMitive Asteroids Spectroscopic Survey - PRIMASS: First Results”, American Astronomical Society, DPS meeting 47, id.106.09, 2015
- U109 Campins, Humberto; Licandro, Javier; de León, Julia; Pinilla-Alonso, Lorenzi, Vania; Ali-Lagoa, Victor; Morbidelli, Alessandro. “Near Earth Asteroid (4015) Wilson-Harrington: a Possible Source of Meteorites from the Polana or the Themis Family”. American Astronomical Society, DPS meeting 47, id.106.05, 2015.
- U110 Duffard, R.; Alvarez-candal, A.; Pinilla-Alonso, N.; Ortiz, J. L.; Morales, N.; Santos-Sanz, P.; Thirouin, A. “Absolute magnitudes of trans-neptunian objects” European Planetary Science Congress 2015, 27 September - 2 October, 2015 in Nantes, France, id.EPSC2015-717.
- U111 Santos-Sanz, P.; French, R. G.; Lin, Z.-Y.; Pinilla-Alonso, N.; Stansberry, J.; Zhang, Z.-W.; Ortiz, J. L.; Duffard, R. “JWST observations of stellar occultations by transneptunian objects and centaurs” European Planetary Science Congress 2015, held 27 September - 2 October, 2015 in Nantes, France, id.EPSC2015-309.
- U112 Ortiz, J. L.; Duffard, R.; Pinilla-Alonso, N.; Alvarez-Candal, A.; Santos-Sanz, P.; Morales, N.; Fernandez-Valenzuela, E.; Licandro, J.; Campo-Bagatin, A.; Thirouin, A. “Chiron, another Centaur with ring material”. European Planetary Science Congress 2015, held 27 September - 2 October, 2015 in Nantes, France, id.EPSC2015-230.
- U113 Migliorini, A.; DeSanctis, M. C.; Duffard, R.; Pinilla-Alonso, N.; Lazzaro, D. “A perspective of the Ceres’ missing family”. European Planetary Science Congress 2015, held 27 September - 2 October, 2015 in Nantes, France, id.EPSC2015-173.
- U114 Tanga, P.; Devogele, M.; Cellino, A.; Campins, H.; Pinilla-Alonso, N. Abe, L.; Bendjoya, Ph.; Rivet, J. P. “Spectroscopy and photometry of L-type asteroids” European Planetary Science Congress 2015, held 27 September - 2 October, 2015 in Nantes, France, id.EPSC2015-74.
- U115 Ortiz, J. L.; Duffard, R.; Pinilla-Alonso, N.; Alvarez-Candal, A.; Santos-Sanz, P.; Morales, N.; Fernandez-Valenzuela, E.; Licandro, J.; Campo Bagatin, A.; Thirouin, A. “VizieR Online Data Catalog: Light curve of (2060) Chiron (Ortiz+, 2015)”
- U116 (\*) Lucas, Michael P; Emery, Joshua P; Lorenzi, Vania; Pinilla-Alonso, Noemi; Lindsay, Sean S. “Medium Rare or Well Done? Asteroid Melting in the Hungaria Region”. American Astronomical Society, DPS meeting 46, 506.06 (2014)

- U117 (\*) Landsman, Zoe A.; Campins, Humberto; Pinilla-Alonso, Noemi; Emery, Joshua P; Lorenzi, Vania. “New Results on Hydration in M-Type Asteroids” American Astronomical Society, DPS meeting 46, 506.03 (2014)
- U118 (\*) Cartwright, Richard J.; Emery, Joshua P; Pinilla-Alonso, Noemi; Rivkin, Andy S.; Trilling, David E. “Distribution of CO<sub>2</sub> ice and evidence for near-surface layers on the large Uranian satellites”, American Astronomical Society, DPS meeting 46, 502.01 (2014)
- U119 Cruikshank, Dale P; Pinilla-Alonso, Noemi; Lorenzi, Vania; Grundy, Will M.; Licandro, Javier; Binzel, Richard P. “Spectroscopy of Pluto at six longitudes, 380-930 nm” American Astronomical Society, DPS meeting 46, 419.04 (2014)
- U120 R. Duffard, N. Pinilla-Alonso, J.L. Ortiz, A. Alvarez-Candal, B. Sicardy, P. Santos-Sanz, N. Morales, C. Colazo, E. Fernandez-Valenzuela, and F. Braga-Ribas “Indirect evidences of the ring system around Chariklo” ESPC Congress, Estoril, Portugal Vol. 9, EPSC2014-493, (2014)
- U121 V. Ali-Lagoa, J. Licandro, M. Delbo, R. Gil-Hutton, M. Casada-Assandri, J. de León, N. Pinilla-Alonso, and H. Campins. “Physical properties of small B-type asteroids from SDSS and WISE data”. Asteroids, Comets and Meteors. Helsinki, (2014).
- U122 A. Alvarez-Candal, N. Pinilla-Alonso, J.L. Ortiz, R. Duffard, J.M. Carvano, and M. de Pra. “A study of the absorption features of Makemake”. Asteroids, Comets and Meteors. Helsinki, (2014).
- U123 J. de León, N. Pinilla-Alonso, J. L. Ortiz, A. Cabrera-Lavers, A. Alvarez-Candal, N. Morales, R. Duffard, P. Santos-Sanz, J. Licandro, A. Perez-Romero, V. Lorenzi, and S. Cikota. “Results from ground-based observations of asteroid 2012 DA14 during its close approach to the Earth on February 15, 2013”. Asteroids, Comets and Meteors. Helsinki, (2014).
- U124 R. Duffard, J. L. Ortiz, N. Pinilla-Alonso, A. Alvarez-Candal, B. Sicardy, N. Morales, P. Santos-Sanz, C. Colazo, E. Fernandez Valenzuela, and F. Braga-Ribas “Photometric and spectroscopic evidence for a dense ring system around Centaur (10199) Chariklo”. Asteroids, Comets and Meteors. Helsinki, (2014).
- U125 J. Licandro, C. Alvarez-Iglesias, A. Cabrera-Lavers, V. Ali-Lagoa, N. Pinilla-Alonso, H. Campins, J. de León, and M. Kelley. “The GTC mid-infrared spectroscopic program of primitive outer-belt asteroids” Asteroids, Comets and Meteors. Helsinki, (2014).
- U126 (\*) V. Lorenzi, N. Pinilla-Alonso, and J. Licandro. “Rotationally resolved spectroscopy of the dwarf planet (136472) Makemake” Asteroids, Comets and Meteors. Helsinki, (2014).
- U127 Gy. M. Szaba, Cs. Kiss, R. Duffard, N. Pinilla-Alonso, J. Licandro. “Spectral properties of the extreme solar system objects 2012 DR30 and 2013 AZ60” ESPC Congress, Estoril, Portugal, Vol. 9, EPSC2014-539, (2014).

- U128 Duffard, R; Pinilla-Alonso, N.; Santos-Sanz, P; Vilenius, E.; Ortiz, J.; Mueller, T.; Fornasier, S.; Lellouch, E.; Mommert, M.; Pal, A.; and 5 coauthors. “A Herschel-PACS view of 16 Centaurs”. American Astronomical Society, DPS meeting (2013) 45, 508.04, 2013
- U129 de León, Julia; Pinilla-Alonso, N.; Ortiz, J.; Cabrera-Lavers, A.; Alvarez-Candal, A.; Morales, N.; Duffard, R.; Santos-Sanz, P; Licandro, J.; Perez-Romero, A.; and 2 coauthors. “Results From Ground-based Observations of Asteroid 2012 DA14 During Its Close-Approach to the Earth on February 15th, 2013”. American Astronomical Society, DPS meeting (2013) 45, 101.01, 2013
- U130 (\*) Lorenzi, V; Pinilla-Alonso, N.; Licandro, J.; Emery, J. P; Dalle Ore, C. M. “Rotational variability in medium and large sized TNOs”. American Astronomical Society, DPS meeting (2013) 45, 414.04, 2013
- U131 (\*) Landsman, Z. A.; Campins, H.; Hargrove, K.; Pinilla-Alonso, N.; Emery, J.; Ziffer, J. “An Investigation of the 3- $\mu$ m Feature in M-Type Asteroids”. American Astronomical Society, DPS meeting (2013) 45, 208.15, 2013
- U132 Ali-Lagoa, V; Licandro, J.; Delbo, M.; Pinilla-Alonso, N.; Emery, J. P; Campins, H.; de León, J. “Combining visible-to-near-infrared spectra and WISE data of Hildas and Jupiter Trojans: preliminary results”. American Astronomical Society, DPS meeting (2013) 45, 205.08, 2013
- U133 J.L.Ortiz; J. de León; N. Pinilla-Alonso; A. Cabrera-Laverns; A. Alvarez-Candal; R. Duffard; N. Morales; P Santos-Sanz; J. Licandro; A. Perez-Romero; V Lorenzi and S. Cikota. “Sobre los acercamientos a la Tierra de asteroides y cometas. El caso de 2012 DA14” III Encuentro sobre Ciencias Planetarias y Exploración del Sistema Solar. Madrid, Junio 2013. Proceedings book, DIGITAL.CSIC, Open Science (<http://hdl.handle.net/10261/90376>), 2013
- U134 R. Duffard; E. Vilenius; N. Pinilla-Alonso; Th. Mueller; J. L. Ortiz; S. Fornasier; M. Mommert; P Santos-Sanz; A. Pal; C. Kiss; M. Mueller; J. Stansberry; E. Lellouch; A. Delsanti. “Centauros vistos por Herschel”. III Encuentro sobre Ciencias Planetarias y Exploración del Sistema Solar. Madrid, Junio 2013. Proceedings book, DIGITAL.CSIC, Open Science (<http://hdl.handle.net/10261/90376>), 2013
- U135 Licandro, J.; Moreno, F; Tozzi, G. P; de León, J.; Cabrera-Lavers, A.; Ortiz, J. L.; Lara, L. M.; Pinilla-Alonso, N.; Alí-Lagoa, V. “Exploring the nature of new MBCs using the 10m GTC telescope”. European Planetary Science Congress 2012, held 23-28 September, 2012 in Madrid, Spain. id. EPSC2012-679, 2012
- U136 Duffard, R.; Vilenius, E.; Pinilla-Alonso, N.; Muller, Th.; Fornasier, S.; Mommert, M.; Santos-Sanz, P; Pal, A.; Kiss, C.; Muller, M.; Lellouch, E.; Delsanti, A. “TNOs are Cool:

- A sample of 18 Centaurs observed with the Herschel Space Observatory". European Planetary Science Congress 2012, Madrid, Spain. id EPSC2012-587, 2012
- U137 Alvarez-Candal, A.; Ortiz, J. L.; Morales, N.; Duffard, R.; Pinilla-Alonso, N.; Littlefair, S.; Dillhon, V. S.; Sicardy, B.; Mottola, S.; Hellmich, S.; Marsh, T.; Shabbaz, T. "Stellar occultation by the trans-Neptunian object 2002 KX14". European Planetary Science Congress 2012, Madrid, Spain. id. EPSC2012-482, 2012
- U138 (\*) Lorenzi, V.; Pinilla-Alonso, N.; Licandro, J.; DalleOre, C. M.; Emery, J. P. "Rotationally Resolved Spectroscopy of (20000) Varuna in the near-Infrared". European Planetary Science Congress 2012, Madrid, Spain. id. EPSC2012-395, 2012
- U139 de León, J.; Lorenzi, V.; Alí-Lagoa, V.; Licandro, J.; Campins, H.; Pinilla-Alonso, N. "Additional spectra of binary asteroid 1996 FG3, primary target of the ESA MarcoPolo-R mission" European Planetary Science Congress 2012, Madrid, Spain. id. EPSC2012-230, 2012
- U140 Alí-Lagoa, V.; Licandro, J.; de León, J.; Delbó, M.; Pinilla-Alonso, N.; Campins, H. "B-type asteroids observed by the Wide-field Infrared Survey Explorer" European Planetary Science Congress 2012, Madrid, Spain. id. EPSC2012-227, 2012
- U141 de León, J.M.; Pinilla-Alonso, N.; Licandro, J.; Campins, H.; Cellino, A.; Tanga, P.; Delbo, M.; Ali-Lagoa, V.; Gayon-Markt, J. "UV-Visible spectra of primitive asteroids: support observations for the Gaia mission". Spanish ICTS contribution to ESA's Gaia mission, Madrid, 21<sup>st</sup> March 2012.
- U142 de León, J.; Licandro, J.; Serra-Ricart, M.; Pinilla-Alonso, N.; Campins, H. "Finding the compositional diversity of the Solar System". Highlights of Spanish Astrophysics VI, Proceedings of the IX Scientific Meeting of the Spanish Astronomical Society (SEA), Madrid, September 13 - 17, 2010.
- U143 J. C. Cook, R. M. Mastrapa, D. P. Cruikshank, A. Alvarez-Candal, N. Pinilla-Alonso. "Analysis of High Resolution Spectra of Eris". DPS-EPSC , Nantes, France, 2011
- U144 A. Alvarez-Candal, N. Pinilla-Alonso, J. Licandro, J. Cook, E. Mason, T. Roush, D. Cruikshank, F. Gourgéot, E. Dotto and D. Perna "The X-Shooter spectrum of (136199) Eris". DPS-EPSC 2011, Nantes, France, 2011
- U145 J. de León, N. Pinilla-Alonso, J. Licandro, H. Campins and G. Marzo. "Near-infrared spectroscopic survey of B-type asteroids: compositional analysis". DPS-EPSC 2011, Nantes, France, 2011
- U146 D. P. Cruikshank, C. M. Dalle Ore, T. L. Roush, N. Pinilla-Alonso, G. A. Marzo. "The Distribution of Organic Materials on the Surface of Iapetus". DPS-EPSC, 2011, Nantes, France, 2011

- U147 J. Licandro, J. de León, M. Kelley, J. Emery, A. Rivkin, N. Pinilla-Alonso, T. Moth'e Diniz, H. Campins, V. Alí Lagoa. "Multi-wavelength study of activated asteroid (596) Scheila." DPS-EPSC, 2011, Nantes, France, 2011
- U148 Mothé-Diniz, T & Pinilla-Alonso, N. "The main-belt comet (596) Scheila at SOAR eyes ". FISSS2011, Maresias, Brazil.
- U149 J. M. Trigo-Rodríguez, J. Llorca, J.M. Madiedo, A. S. Rivkin, J. de León, and N. Pinilla-Alonso. "Precise Reflectance spectra of ordinary chondrites in the visible and UV: exploring the variability of S-Class asteroids spectra", 2011
- U150 Cruikshank, D. P.; Marzo, G.; Pinilla-Alonso,N; Roush, T. L.; Mastrapa, R. M.; Dalle Ore, C. M.; Buratti, B. J.; Stephan, K.; Brown, R. H.; Baines, K. H.; Clark, R. N.; Nicholson, P D.; Sotin, C.; Cassini Vims Team. "Mimas: Preliminary Evidence For Amorphous Water Ice From VIMS (Invited)". AGU Fall Meeting, P21C-07. (2010)
- U151 A. Alvarez-Candal, N. Pinilla-Alonso, J. Licandro. "Eris a través de los ojos de X-Shooter". 53<sup>a</sup>. Reunión Anual de la Asociación Argentina de Astronomía, Salta, Argentina, (2010).
- U152 A. Alvarez-Candal, N. Pinilla-Alonso, J. Licandro, E. Mason, F. Gourgeot, E. Dotto. "The dwarf planet Eris through the eyes of XSHOOTER". The first year of science with X-shooter, Italy, (2010).
- U153 Dale P. Cruikshank, G. A. Marzo, N. Pinilla-Alonso, T. L. Roush, R. M. Mastrapa, C. M. Dalle Ore, B. J. Buratti, K. Stephan, VIMS Team. "Mimas: Preliminary Evidence For Amorphous Water Ice From VIMS", DPS-Pasadena, USA, (2010).
- U154 C. M. Dalle Ore, N. Pinilla-Alonso, G. Marzo, D. P. Cruikshank, "Polycyclic Aromatic Hydrocarbons on Saturn's Satellite Iapetus", PAHs and the Universe, Toulouse, France (2010).
- U155 D. P. Cruikshank, G. A. Marzo, N. Pinilla-Alonso, T. L. Roush, R. M. Mastrapa, B. J. Buratti, C. M. Dalle Ore. "Flyby of Mimas: evidence for amorphous water ice from VIMS". EPSC Abstracts Vol. 5, EPSC2010-335, 2010. European Planetary Science Congress (2010)
- U156 Kelsey D. Hargrove, H. Campins, N. Pinilla-Alonso, E. S. Howell, M. S. Kelley, J. Licandro, T. Moth'e-Diniz, Y. Fern'andez, J. Ziffer. "First Detection of Water Ice and Organics on an Asteroid: A Possible Link to the Origin of Earth's Water". abstract. 216<sup>th</sup> AAS, 409.05 (2010)
- U157 Campins, H.; Hargrove, K. D.; Pinilla-Alonso, N.; Howell, E. S.; Kelley, M. S.; Licandro, J.; Moth'e-Diniz, T.; Fern'andez, Y.; Ziffer, J. E. "The Icy Nature of Asteroid 24 Themis". Astrobiology Science Conference 2010. (2010) League City, Texas. LPI Contribution, 1538, p.5431.

- U158 Z. Landsman; J. Licandro; H. Campins; M. Kelley; K. Hargrove; N. Pinilla-Alonso; D. Cruikshank; A.S. Rivkin; J. Emery “Asteroid 65 Cybele: Detection Of Small Silicate Grains, Water-Ice And Organics”, DPS-Pasadena, USA, (2010).
- U159 C. M. Dalle Ore, N. Pinilla-Alonso, G Marzo and D. P. Cruikshank “TNO colors: a modeling approach to the properties of ices”. abstract. AGU Fall Meeting, (2009)
- U160 Campins, H; Hargrove, K; Howell, E. S; Kelley, M. S; Licandro, J; Moth'e-Diniz, T; Ziffer, J.; Fernandez, Y; Pinilla-Alonso, N. “Confirming Water Ice on the Surface of Asteroid 24 Themis”. American Astronomical Society, DPS meeting 41, 32.05. Bulletin of the American Astronomical Society, v41. (2009)
- U161 R. Brunetto, N. Pinilla-Alonso, R. Gil-Hutton, J. Licandro, T.L. Roush, G. Strazzulla. “Carbon-rich vs. carbon-depleted icy surfaces in the trans-neptunian region: the role of impacts and ion irradiation on Haumea and other TNOs”. abstract. IX Congresso Nazionale di Planetologia, Amalfi, Italia. (2009)
- U162 B. Garcia-Lorenzo, J.A. Castro-Almazan, A. Eff-Darwich, C. Muñoz-Tuñ'on, N. Pinilla-Alonso et al. “Precipitable water vapour content above the Roque de los Muchachos observatory from GPS estimation”. SPIE Volume: 7475, (2009)
- U163 J. de León, J. Licandro, N. Pinilla Alonso, H. Campins, M. Serra Ricart. “The MB-NEA-OC connection revisited: compositional differences and size-dependent transport mechanisms”. Bolides and Meteorite Falls Conference, Praga. (2009)
- U164 J. Licandro, J. de León, N. Pinilla-Alonso, H. Campins, G.P Tozzi & H. Boehnhardt. “Activated Asteroids in the Main Belt, Its Nature and Its Role as a Possible Source of Terrestrial Water”. *Astrobiology*. 8(2): 339-343. (2008)
- U165 Licandro, J; de León, J; Pinilla-Alonso, N; Campins, H. & Binzel, R. “The Surface Properties of Damocloid 2002 RP120”. *Asteroids, Comets, Meteors*. LPI Contribution No. 1405, paper id. 8198. (2008)
- U166 J. de León, J. Licandro, D. Lazzaro, N. Pinilla-Alonso & M. Serra-Ricart. “The Journey from the Main Belt to the Earth: the Near-Earth Asteroids and Their Link with Meteorites”. *Astrobiology*. 8(2): 339-343. (2008)
- U167 J. de León, J. Licandro, D. Lazzaro, N. Pinilla-Alonso, M. Serra-Ricart Del “Cintur'on Principal a la Tierra: los NEAs y su conexi'on con los meteoritos”. VIII Reunión científica de la SEA, Santander. (2008)
- U168 Hargrove, K; Campins, H; Kelley, M; Fernandez, Y; Ziffer, J; Licandro, J; Emery, J; Cruikshank, D; Hergenrother, C; Pinilla-Alonso, N & Clautice, D. “Infrared Spectra of Comet-Asteroid Transition Object 944 Hidalgo”. American Geophysical Union, Spring Meeting, abstract P34A-06. (2008)



- U169 Campins, H; Fernández, Y; Kelley, M. S; Licandro, J; Hargrove, K; de León, J; Pinilla-Alonso, N & Morbidelli, A. “Low Perihelion Near-Earth Asteroids”. American Astronomical Society, DPS meeting 40, 28.19; Bulletin of the American Astronomical Society, Vol. 40, p.439. (2008)
- U170 Campins, H; Fernández, Y; Kelley, M; Licandro, J; Hargrove, K; de León, J; Pinilla-Alonso, N & Morbidelli, A. “Low Perihelion Near-Earth Asteroids”. Asteroids, Comets, Meteors. LPI Contribution No. 1405, paper id. 8291. (2008)
- U171 Valenti, S; Fugazza, D; Maiorano, E; D’Elia, V; Antonelli, L. A; Covino, S; Magazzu, A; Pinilla-Alonso, N et al. “Supernova 2008D in NGC 2770” Central Bureau Electronic Telegrams, 1205, 2. (2008).
- U172 Valenti, S; Fugazza, D; Maiorano, E; D’Elia, V; Antonelli, L. A; Covino, S; Magazzu, A; Pinilla-Alonso, N. et al. “Supernova 2008D in NGC 2770” Central Bureau Electronic Telegrams, 1204, 2. (2008).
- U173 Antonelli, L. A; Valenti, S; Fugazza, D; D’Elia, V; Maiorano, E; Magazzu, A & Pinilla-Alonso, N. “XRF 080109 in NGC2770: NIR observations at TNG”. GRB Coordinates Network, Circular Service, 7177, 1. (2008)
- U174 Valenti, S; Fugazza, D; Maiorano, E; D’Elia, V; Antonelli, L. A; Covino, S; Magazzu, A; Pinilla-Alonso, N et al. “Spectroscopic classification of SN 2008D (Transient in NGC 2770)”. GRB Coordinates Network, Circular Service, 7171, 1 (2008)
- U175 D’Elia, V; Antonelli, L. A; Covino, S; Maiorano, E; Magazzu, A & Pinilla-Alonso, N. “Bright X-ray transient / possible XRF in NGC 2770: TNG r imaging”. GRB Coordinates Network, Circular Service, 7162, 1 (2008)
- U176 Licandro, J; Pinilla-Alonso, N; de León, J; Campins, H; Boehnhardt, H; Tozzi, G; Hainaut, O; Moth’e-Diniz, T. “The Nature Of Active Asteroids In The Main Belt”. AAS, 39 DPS meeting, 30.09, Bulletin of the American Astronomical Society, v39, p 470. (2007)
- U177 J. Licandro, J. de León, N. Pinilla-Alonso, H. Campins, T. Mothé-Diniz, A- Alvarez-Candal, A. Fiorenzano. “Are comets the so called Main Belt comets?”. EPSC Abstracts, Vol. 2. (2007)
- U178 de León, J; Licandro, J. L; Pinilla-Alonso, N; Lazzaro, D. “Spectral Parameters Following Gaffey Method Of Near-earth Asteroids And Main Belt Objects”. AAS, 39 DPS meeting, 35.01, Bulletin of the American Astronomical Society, v39, p 481. (2007)
- U179 Campins, H; Kelley, M. S; Fernández, Y. R; Ziffer, J; Licandro, J; Emery, J; Cruikshank, D. P; Hergenrother, C; Pinilla-Alonso, N; Hargrove, K & Clautice, D. “Rotationally Resolved Spitzer Spectra of Comet-Asteroid Transition Object 944 Hidalgo’. AAS, 39 DPS meeting, 36.04, Bulletin of the American Astronomical Society, v39, p 486. (2007)

- U180 Perez-Hoyos, Santiago; Sanchez-Lavega, A. et al (12 Coautores, incluye a N. Pinilla-Alonso)  
“The 2007 Jupiter’s North Temperate Belt Disturbance. II. Vertical cloud structure models”.  
AAS, 39 DPS meeting, 19.01, Bulletin of the American Astronomical Society, v39, p 443.  
(2007)
- U181 D’Avanzo, P; Covino, S.; Della Valle, M; Pian, E; Tagliaferri, G; Mazzali, P; Magazzu, A &  
Pinilla-Alonso, N. GRB Coordinates Network, Circular Service, 6558, 1. (2007)
- U182 Licandro, J; Pinilla-Alonso, N; Pedani, M; Oliva, E; Leisy, P; Tozzi G.P. & W. Grundy. “The  
surface of Pluto-twin TNOs 2005 FY5 and 2003 UB313”. TNOs: Physical and Dynamical  
Properties, Catania, Italia. (2006)
- U183 J. Licandro, N. Pinilla Alonso, J. de León, M. Serra-Ricart, R. Gil-Hutton & W. Grundy.  
“Plutons and Charons in the trans-Neptunian belt”, SEA, Barcelona. (2006)
- U184 Brunetto, R; Leto, G; Licandro, J; Pinilla-Alonso, N & Strazzulla, G. “Irradiation of Water  
Ammonia and their Mixtures., TNOs: Physical and Dynamical Properties, Catania, Italia.  
(2006)
- U185 De León, J; Duffard, R.; Licandro, J; Pinilla-Alonso, N; Serra-Ricart, M. “Near-Earth  
Objects Spectroscopic Survey (NEOSS): First Results from Mineralogical Analysis”. AAS,  
38 DPS meeting, 71.07, Bulletin of the American Astronomical Society, v38, p 627. (2006)
- U186 Licandro, J; Campins, H.; Moth’e-Diniz, T; Pinilla-Alonso, N.; de León, J. “The nature of  
(3200) Phaethon”. AAS, 38 DPS meeting, 50.02, Bulletin of the American Astronomical  
Society, v38, p 577. (2006)
- U187 Licandro, J; Álvarez-Candal, A; de León, J; Pinilla-Alonso, N; Moth’e-Diniz, T & Campins,  
H. “The asteroid-comet transition objects: an observational perspective”. abstract.IAU  
Symp. n. 236, Prague. (2006)
- U188 Campins, H; Licandro, J.; Fernandez, Y; Hergenrother, C; Ziffer, J.; Emery, J; Cruikshank,  
D; Pinilla-Alonso, N. “Near-Infrared Rotational Variability in Comet-Asteroid Transition  
Object 944 Hidalgo”. AAS, 38 DPS meeting, 20.24, Bulletin of the American Astronomical  
Society, v38, p516. (2006)
- U189 Campins H; Ziffer J; Licandro J; Fernandez Y.& Pinilla-Alonso, N. “Near-Infrared Spec-  
tral Similarities between Cometary Nuclei and Trojan Asteroids”. TNOs: Physical and  
Dynamical Properties, Catania, Italia. (2006)
- U190 de Ugarte Postigo, A; Jelinek, M; Castro-Tirado, A. J; Gorosabel, J; Pinilla-Alonso, N; de,  
León Cruz, J & Licandro, J. “GRB 060930: near-IR afterglow candidate”. GRB Coordinates  
Network, Circular Service, 5682, 1 (2006)

- U191 Fugazza, D; Malesani, D; Chincarini, G; Covino, S; Romano, P; Tagliaferri, G; Della Valle, M; Masetti, N; Andreuzzi, G & Pinilla Alonso, N. “GRB 060428B: spectroscopy”. GRB Coordinates Network, Circular Service, 5075, 1 (2006)
- U192 J. Licandro, N. Pinilla-Alonso, J. de León Cruz, T. Mothe-Diniz, H. Campins “Hydrated minerals on the surface of (3200) Phateon?”. IAU Symp. n229, ACM, Buzios, (2005)
- U193 J. Licandro, N. Pinilla-Alonso, J. de León, M. Serra-Ricart, M. T. Capria , M. Shirmer, L. Lara-López, P. Gutiérrez, G. P. Tozzi, R. Barrena, C. Barbieri. “The Deep Impact experiment observed from El Roque de los Muchachos Observatory”. IAU Symp. n229, ACM, Buzios (2005).
- U194 Licandro, J; de León-Cruz, J; Álvarez-Candal, A; Pinilla-Alonso, N; Lazzaro, D; Campins, H & Serra-Ricart, M. “Surface Properties of Asteroids in Cometary Orbits (ACOs)”. IAU Symp. n229, ACM, Buzios (2005).
- U195 Campins, H; Licandro, J; Ziffer, J; Fernandez, Y. R; Hora, J; Kassis, M & Pinilla-Alonso, N. “Surface Characteristics of Comet-Asteroid Transition Objects 944 Hidalgo and 162P/Siding Spring (2004 TU<sub>12</sub>)”. AAS, DPS meeting 37,16.02; Bulletin of the American Astronomical Society, Vol 37, p645. (2005)
- U196 Elias-Rosa, N; Benetti, S; Cappellaro, E; Dolci, M; Pastorello, A; Boschini, W & Pinilla-Alonso, N. “Possible Supernova in NGC 4656”. 2005 IAU Circular, 8498. (2005).
- U197 Campins, H; Licandro, J; Ziffer, J; Fernández, Y; Hora, J; Kassis, M & Pinilla-Alonso, N. “Surface Characteristics of Comet-Asteroid Transition Objects 944 Hidalgo and 162P/Siding Spring (2004 TU<sub>12</sub>)”. IAU Symp. n229, ACM, Buzios, (2005).
- U198 A. Alvarez-Candal, J. Licandro, J. de León Cruz, N. Pinilla, M. Serra-Ricart, D. Lazzaro “Observations of asteroids in cometary orbits”. IAU Symp. n229, ACM, Buzios, (2005).
- U199 Binzel, R. P; Licandro, J; Serra-Ricart, M; de León Cruz, J & Pinilla-Alonso, N. “Comet C/2003 WT42 (LINEAR)”. IAU Circ., 8270, 1 (2004)
- U200 Licandro, J; de Leon Cruz, J; Serra-Ricart, M; Garcia, A & Pinilla, N. “The physical nature of asteroids in cometary orbit”. 35th COSPAR Scientific Assembly, Paris, France, 2004. 2004cosp.meet.3336L (2004).
- U201 M. R. Kidger; J. M. Rodríguez-Espinosa; N. Pinilla. “The Infrared Quality of the GTC Sky - Excellent prospects for mid-infrared”. First Science with the GTC International Meeting, Granada, Spain (2002).
- U202 M. Kidger, N. Pinilla & J. Espinosa. “Cross-Calibration of a GPS Water Vapour Monitor in low water vapour conditions”. ASP Conference Series, 266, 220. (2002)

- U203 J.Espinosa, M. Kidger & N.Pinilla. “IR Properties of the GTC 10 m Telescope Site”. ASP Conference Series, 266, 198. (2002).
- U204 Kidger, M. R. & Pinilla Alonso, N. The Total Lunar Eclipse of January 9th 2001. The Astronomer. (2001)
- U205 Kidger, M. R., Pinilla Alonso, N, Rodríguez Espinosa, J. M. & Sedó, M. J. “Measurements of water vapour on El Roque de los Muchachos”. 4<sup>th</sup> Scientific meeting of the Spanish Astronomical Society Association, (2000).