

Sebastien GUILLOT

Astronome-Adjoint at IRAP

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Research Interests

Neutron stars, Dense matter physics, X-ray binaries and accretion physics, Compact objects, High-energy phenomena

Employment

2021	Institut de Recherche en Astrophysique et Planétologie, Toulouse, France Adjoint Astronomer (equivalent to Associate Professor)
2020 – 2021	CLS Group, Toulouse, France Engineer in oceanography (pipeline, calibration and data analyses) for the CFOSAT mission
2020	Institut de Recherche en Astrophysique et Planétologie, Toulouse, France Researcher (CNRS) in the SVOM-ECLAIRs team
2018 – 2020	Institut de Recherche en Astrophysique et Planétologie, Toulouse, France CNES Post-doctoral Fellow
2015 – 2017	Pontificia Universidad Católica de Chile, Instituto de Astrofísica FONDECYT Post-doctoral Fellow
2014 – 2015	McGill University, Physics Department Post-doctoral researcher and outreach coordinator

Education

2014	PhD in astrophysics, McGill University – Vanier Graduate Scholar Including a research internship at JILA-CU Boulder, funded by the FRQNT International Internship Award Note: The Vanier Graduate Scholarship that I received in 2011 extended the duration of my PhD to a total 5 years.
2009	Master of Science (Physics), McGill University Note: Specialisation in Astrophysics
2007	Bachelor of Science (with distinctions), University of Victoria (BC, Canada) Co-op program: Four 4-month long internships at IAS (Paris), IAP (Paris), McGill U. (Canada), and Harvard CfA (USA). Note: It took me longer than usual to obtain my B.Sc. because some courses from EAI Tech were not fully transferred to the University of Victoria, and because I participated in the Co-operation program
2003	Euro-American Institute of Technology (EAI Tech, Sophia-Antipolis, France) Note: Two-years preparation program in Astrophysics with courses in French/English, before transferring to UVic

Participation in International Observatory Collaborations

Since 2023	Einstein Probe – Co-I and Member of two working groups
Since 2022	LISA (launch in 2035) – Affiliated member of LISA Consortium (Distributed Data Processing Center)
Since 2022	Theseus mission (phase-A study)
Since 2020	SVOM mission (launch in 2024) – Co-I and Member of the ECLAIRs Instrument Center
Since 2018	STROBE-X mission (phase-A study) – Member of a science working group
Since 2017	eXTP mission (phase-B study) – Member of a science working group
Since 2016	LYNX X-ray mission (proposed) – Simulations for “Extreme physics and compact objects” working group
Since 2015	ATHENA X-Ray Observatory Study Team – Simulations for “End points of stellar evolution” working group
Since 2015	NICER Mission – Member of the Science Team (4 working groups)
Since 2014	NuSTAR Observatory – Member of the “Magnetars and rotating radio pulsars” working group

Main Grants, Fellowships and Scholarships

2021-2025	Co-I of a project funded by the french <i>Agence Nationale de la Recherche</i> (ANR)	682 k€
2018	CNES Post-doctoral fellowship (2 years)	
2017	ECOS-CONICYT France-Chile Collaboration Grant (3 years, as collaboration lead)	~ 30 k€
2016	<i>Chandra</i> observing grant as PI (grant for US-based Co-Is)	~ 40 k€
2015	FONDECYT Post-doctoral Fellowship (3 years)	~ 110 k€
2011		~ 105 k€

Other Grants, Scholarships, Awards, and Honorary Memberships

2022	Bruno Rossi price of the American Astronomical Society (awarded to the NICER team)
2020	Funding for conference organisation from Programme National des Hautes Energies (CNRS-INSU; 2 k€)
2019	Best presentation award from Asian Nuclear Physics Association
2019	Best presentation award from European COST Action PHAROS
2019	Funding for conference organisation from Labex OCEVU (2 k€)
2019	Funding for conference organisation from Programme National des Hautes Energies (CNRS-INSU; 2 k€)
2017	European Commission AHEAD Visitor programme
2016	European Commission AHEAD Trans-National Access to X-ray Data-Analysis travel grant

<i>Since 2013</i>	McGill Scarlet Key Society Award and Membership
<i>2013</i>	International Internship Award, Fonds de Recherche du Québec: Nature and Technology (FRQNT)
<i>2011 – 2014</i>	McGill Graduate Travel Funding Award (6 occurrences)
<i>2010</i>	McGill Graduate Office Dow-Hickson Fellowship
<i>2009</i>	McGill Graduate Office Provost Graduate Fellowship
<i>2008</i>	Rutherford Physics Department Principal's Graduate Fellowship
<i>2007</i>	McGill Graduate Office Recruitment Excellence Fellowship
<i>2007</i>	Victoria Center of the Royal Astronomical Society of Canada Price
<i>2006</i>	University of Victoria Physics Department Scholarship
<i>2002</i>	Euro-American Institute of Technology Best GPA Scholarship

Organisation of conferences/workshops

<i>2024</i>	Lead organiser of the Lorentz Center workshop “ <i>eXtreme Matter in eXtreme Stars 2024</i> ” (Leiden, Netherlands)
<i>2024</i>	Co-organizer of the “ <i>3rd MaNiTou Summer School on Grav.Waves: A new window to the Universe</i> ” (Toulouse, Fr.)
<i>2024</i>	LOC member XMM2ATHENA Scientific Conference, at IRAP (Toulouse)
<i>2023</i>	Co-organizer of the “ <i>2nd MaNiTou Summer School on Grav.Waves: A new window to the Universe</i> ” (Nice, France)
<i>2023</i>	Lead organiser of a parallel session at the Annual meeting of the SF2A (Strasbourg, France)
<i>2022</i>	Co-organizer of the “ <i>1st MaNiTou Summer School on Grav. Waves: A new window to the Universe</i> ” (Marseille, Fr.)
<i>2022</i>	Co-organizer of workshop ECT* Trento 2022: “ <i>Neutron stars as multi-messenger laboratories</i> ”
<i>2019</i>	Lead organiser of EWASS 2019 Session “ <i>Neutron stars as multi-messenger laboratories for dense matter physics</i> ”
<i>2019</i>	Lead organiser of the 2019 annual meeting of the GAHEC Department at IRAP
<i>2018</i>	LOC member of workshop “ <i>Treasures hidden in High-energy Catalogs</i> ”, at IRAP (Toulouse)
<i>2011, 2014</i>	Assistant organizer of two annual meetings of the CRAQ (~80 attendees)
<i>2009</i>	Lead organizer of the annual graduate student workshop of the CRAQ (~30 attendees)

Peer-review and other academic Responsibilities

	<u>Peer Review</u> : Referee for A&A, ApJ, MNRAS, and Reviews of Modern Physics Time Allocation Committee for <i>NRT, NICER, NuSTAR</i> and <i>Gemini</i> observatories.
	Member of the Scientific Council of the <i>CNRS Specific Action SKA-LOFAR</i> (Since 2023)
	Organisation of IRAP Seminars (Since 2022)
<i>2024</i>	Review of Grant application for <i>UK Research and Innovation</i>
<i>2023</i>	Jury member (examiner) of the PhD Defence of Joanna Berteaud (Annecy, France)
<i>2023</i>	Jury member (examiner) of the PhD Defence of Lami Suleiman (Warsaw, Poland)
<i>2019–2022</i>	Review of <i>NASA Post-doctoral fellowships</i>
<i>2020</i>	Review of <i>COFUND Individual Fellowships @ Université Libre de Bruxelles</i>
<i>2018 – 2019</i>	Organizer of the GAHEC department seminar series at IRAP
<i>2018 – 2019</i>	Elected post-doc representative (deputy) at IRAP
<i>2017</i>	Co-organizer of daily astro-ph discussion group at the Instituto de Astrofisica, PUC
<i>2017</i>	Evaluation of a research project for the Argentinian Commission of Sciences FONCyT
<i>2014 – 2015</i>	McGill Space Institute Coordinator (interim)
<i>2010 – 2014</i>	Membre of the Scientific Council of the Centre de Recherche en Astrophysique du Québec (CRAQ)
<i>2012 – 2013</i>	Public relation officer of the astrophysics group at McGill University
<i>2010 – 2013</i>	President of the McGill Graduate Association of Physics Students

Thesis Supervision

<i>2023–2026</i>	Pierre Stammler <i>Multi-wavelength observations of millisecond pulsars to probe the interior of neutron stars</i>
<i>2023–2026</i>	Lucien Mauviard-Hagg <i>Neutron star observations to constrain extreme physics</i>

Other Students Supervision (and % of co-supervision)

<i>2024</i>	Mickael Fernandez (100%) – IUT Blagnac 2nd year student “ <i>Development of a database and web interface for diffusion of observational constraints on dense matter</i> ”
<i>2024</i>	Paul Fort (50%) – M.Sc. at Université de Toulouse “ <i>Modelling the surface emission of neutron stars</i> ”
<i>2024</i>	Lucas Tensa (50%) – M.Sc. at Université de Toulouse “ <i>Studying neutron star crust with Gamma-ray bursts precursors observed by SVOM</i> ”
<i>2024</i>	Liam O’Leary (50%) – M.Sc. at Université de Toulouse “ <i>Searching for X-ray binaries in the eROSITA Catalog</i> ”
<i>2023</i>	Pierre Lambin – ELISA Aerospace 2nd year student “ <i>Development of pointing optimisation and background estimator the NICER mission</i> ”
<i>2023</i>	Tristan Devaux (50%) – INSA 2nd year student “ <i>Development of warm atmosphere models for neutron stars</i> ”
<i>2023</i>	Vincent Noguero (100%) – IUT Paul Sabatier 2nd year student “ <i>Development of a database and web interface for diffusion of observational constraints on dense matter</i> ”

2023	Raphaël Pacaut (50%) – ISAE-Supaero 2nd year Student “Simulations of GRBs as seen by the SVOM-ECLAIRs instrument for the ECLAIRs Instrument Center”
2023	Yann Chatonnier (100%) – M.Sc. at Université de Toulouse “Studying extreme matter with observations of neutron stars”
2023	Pierre Stammer (75%) – M.Sc. at Université de Toulouse (now PhD student at IRAP) “Study of the surface emission of a millisecond pulsar”
2022	Valentine Laurent (100%) – M. Sc. at Université de Toulouse “Spectral analyses of X-ray sources in the XMM-Newton Catalog”
2022	Charlotte Méral (100%) – ISAE-Supaero 2nd year Student “Searching for X-ray binaries in the XMM-Newton Catalog”
2022	Gwénaél Loyer (100%) – M.Sc. at Université de Toulouse “Etudier la physique des extrêmes avec les étoiles à neutrons”
2021	Lina Issa (25%) – M2 à l’Observatoire de Paris “Constraining the neutron star equation of state with NICER observations”
2020	Kilian Soisnard (100%) – B.Sc at Université de Rennes “Etudes des étoiles à neutrons dans les rayons X”
2019	Camille Diez (90%) – M.Sc. at Université de Toulouse (now ESA Post-doc in Madrid) “Spectroscopie optique des objets compacts dans les amas globulaires avec le VLT”
2018 – 2019	Constanza Echiburu (100%) – B.Sc. at Pontificia Católica Universidad (now PhD student at CU Boulder) “X-ray analysis of the quiescent low-mass X-ray binary in the globular cluster M30”
2018	Maud Thepenier (75%) – M.Sc. at Université de Toulouse “A la recherche d’étoiles à neutrons par corrélation croisée de catalogues dans les rayons X et l’Optique”
2017 – 2018	Goran Doll Carriel (75%) – B.Sc. at Pontificia Católica Universidad de Chile “Simulations of thermal emission from neutron stars” and “The X-ray thermal emission from PSR J2124–3358”
2017	Rodrigo Moraga Merino (75%) – B.Sc. at Pontificia Católica Universidad de Chile “Counterparts to neutron stars in globular clusters”
2016 – 2018	Nicolas Baillot d’Etivaux (50%) – PhD at Université de Lyon / IPNL “Equation d’état de la matière dense et application à l’émission thermique des étoiles compactes”
2015 – 2017	Cristobal Reyes Muñoz (75%) – B.Sc. at Pontificia Católica Universidad de Chile “Analysis of Hubble Space Telescope observations of old neutron stars”
2016	Manuel Pichardo Marciano (25%) – M.Sc. internship at IRAP, Toulouse “MUSE Integral field spectroscopic observations of the compact objects in the globular cluster NGC 6397”

Teaching Experience

2023	Master 2 level course “Compact Objects and Accretion” at UPS and ISAE (23 students) - 8h total
2023	Physics laboratory for 1st year student (7 groups of 18 students) - 56h total
2023	Introduction to Astronomy at INSA (24 students) - 10h total
2022	Master Seminar lecture on “Neutron stars as laboratories for physics”
2022	Master 2 level course “Compact Objects and Accretion” at UPS and ISAE (23 students) - 8h total
2022	Physics laboratory for 1st year student (7 groups of 18 students) - 56h total
2022	Introduction to Astronomy at INSA (35 students) - 12h total
2022	Physics laboratory for 1st year student (4 groups of 18 students) - 32h total
2019	Master Seminar lecture on “Neutron stars as laboratories for physics”
2018	Master Seminar lecture on “Multi-messenger observations of neutron stars as nuclear physics laboratories”
2017	Guest lecturer for the course “The Milky Way inside and Out”, at Montana State University
2015	Participation in the development of a teacher training workshop in Science Education (“Teacher Inquiry Institute”)
2015	Guest lecturer for the course “The Milky Way inside and Out”, at McGill University
2013 – 2014	Participation in astronomy course development at McGill Physics Department (astronomy laboratory)
2013	Certificate from the T-PULSE Tomlinson University-Level Science Education workshop at McGill
2008 – 2012	Laboratory Coordinator – Introductory physics course (~700 students)
2007 – 2008	Laboratory Instructor – Introductory physics course

Outreach Experience

2019	Short article on NICER results for the “International Space Station NICER Science Nuggets”
2018	Short snippet on NICER within an article on neutron stars in “La Recherche” (Sept. 2018)
2018 – 2019	Participation in the “Variable Sky Simulator” project at IRAP
2016	Participation in the Fermi MasterClass Chile 2016
2015	Successful IAU Grant Proposal (ref.: OAD TF2-2015B-1345-AAAP, 2730 euros)
2012 – 2015	Scientific consultant to a team primary school teachers as part of “Eclairs de Sciences” programme
Since 2013	Astronomy Ambassador of the American Astronomical Society
Since 2012	Co-founder and coordinator of AstroMcGill, the astronomy outreach program at McGill University
Since 2012	Host of over 40 AstroMcGill Podcasts
Since 2012	Host of numerous observing events (night sky and solar observing)
Since 2012	Facilitator and presenter of numerous astronomy activities in primary/secondary schools
2012 – 2015	Numerous newspapers (La Presse, McGill Reporter), radio (Radio Canada, CBC Montreal Radio), and TV interviews (CBC National, RDI, CTV Montreal) about the Transit of Venus, landing of ESA’s Philae

Public Lectures

2024	<i>“Etoiles à neutrons et trous noirs: les monstres du cosmos”</i> , Université du Temps Libre (Toulouse, France)
2020	<i>“Tour d’horizon des étoiles à neutrons”</i> , pour l’association Ciel d’Occitanie
2016	<i>“Les étoiles à neutrons: bien plus fascinantes que les trous noirs”</i> , for the Société d’Astronomie de Toulouse
2015	<i>“Neutron Stars – More awesome than black-holes”</i> , AstroMcGill Public Lecture (~200 attendees)
2015	<i>“Are we there yet? Climbing the rungs of the distance ladder”</i> , AstroMcGill Public Lecture (~80 attendees)
2014	<i>“The Supernova 2014J”</i> , for the McGill University Student Astronomy Club
2013	<i>“What do we learn by studying the Cosmos?”</i> , for the McGill University Student Astronomy Club
2013	<i>“What do we learn by studying the Cosmos?”</i> , at the Cummings Community Center (Montreal)

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Astronomer at the Institut de Recherche en Astrophysique et Planétologie

List of publications and other contributions

A. Summary

Total number of citations: 7382 (h-index: 34)
 Complete list on ADS : [ADS link](#)

B. Articles submitted for publication in peer-reviewed journals

2	<p><i>A Comprehensive Study of Thermonuclear X-ray Bursts from 4U 1820-30 with NICER: Accretion Disk Interactions and a Candidate Burst Oscillation</i> Jaisawal, G. K., Bostancı, F., Boztepe, T., Güver, T., Strohmayer, T., Ballantyne, D. R., Chenevez, J., Beck, J. H., Göğüs, E., Altamirano, D., Arzoumanian, Z., Chakrabarty, D., Gendreau, K. C., Guillot, S., Ludlam, R. M., Ng, M., Sanna, A. <i>May 2024, Submitted in The Astrophysical Journal.</i></p>
1	<p><i>Constraining the Dense Matter Equation of State with New NICER Mass-Radius Measurements and New Chiral Effective Field Theory Constraints</i> Rutherford, N., Mendes, M., Svensson, I., Schwenk, A., Watts, A. L., Hebeler, K., Keller, J., Prescod-Weinstein, C., Choudhury, D., Salmi, T., Timmerman, P., Vinciguerra, S., Guillot, S., Lattimer, J. M. <i>March 2024, Submitted to The Astrophysical Journal.</i></p>

C. Publications in peer-reviewed journals

2024

107	<p><i>Exploring Waveform Variations among Neutron Star Ray Tracing Codes for Complex Emission Geometries</i> Choudhury, D., Watts, A. L., Dittmann, A. J., Miller, M. C., Morsink, S. M., Salmi, T., Vinciguerra, S., Bogdanov, S., Guillot, S., Wolff, M. T., Arzoumanian, Z., Gendreau, K. C., Morsink, S. M., Ho, W. C. G., <i>June 2024, Accepted in The Astrophysical Journal. ArXiv:2406.07285</i></p>
106	<p><i>A NICER View of the Nearest and Brightest Millisecond Pulsar: PSR J0437–4715</i> Choudhury, D., Salmi, T., Vinciguerra, S., Riley, T. E., Kini, Y., Watts, A. L., Dorsman, B., Bogdanov, S., Guillot, S., Ray, P. S., Reardon, D. J., Remillard, R. A., Bilous, A. V., Huppenkothen, D., Lattimer, J. M., Arzoumanian, Z., Gendreau, K. C., Morsink, S. M., Ho, W. C. G., <i>June 2024, Accepted in The Astrophysical Journal.</i></p>
105	<p><i>The Radius of the High Mass Pulsar PSR J0740+6620 With 3.6 Years of NICER Data</i> Dittmann, A. J., Miller, M. C., Lamb, F. K., Holt, I., Chirenti, C., Wolff, M. T., Bogdanov, S., Guillot, S., Ho, W. C. G., Morsink, S. M., Arzoumanian, Z., Gendreau, K. C. <i>June 2024, Accepted in The Astrophysical Journal.</i></p>
104	<p><i>The Radius of the High Mass Pulsar PSR J0740+6620 With 3.6 Years of NICER Data</i> Salmi, T., Choudhury, D., Kini, Y., Riley, T. E., Vinciguerra, S., Watts, A. L., Wolff, M. T., Arzoumanian, Z., Bogdanov, S., Chakrabarty, D., Gendreau, K. C., Guillot, S., Ho, W. C. G., Huppenkothen, D., Ludlam, R. M., Morsink, S. M., Ray, P. S. <i>June 2024, Accepted in The Astrophysical Journal.</i></p>
103	<p><i>Localisation of the non-thermal X-ray emission of PSR J2229+6114 from its multi-wavelength pulse profiles</i> Pétri, J., Guillot, S., Guillemot, L., Mitra, D., Kerr, M., Kuiper, L., Cognard, I., Theureau, G. <i>June 2024, Accepted in Astronomy and Astrophysics. ArXiv:2406.01244</i></p>
102	<p><i>NICER Discovery of the Accreting Millisecond X-ray Pulsar SRGA J144459.2–604207</i> Ng, M., Ray, P. S., Sanna, A., Strohmayer, T. E., Papitto, A., Illiano, G., Albayati, A., Altamirano, D., Boztepe, T., Güver, T., Chakrabarty, D., Arzoumanian, Z., Buisson, D. J. K., Ferrara, E. C., Gendreau, K. C., Guillot, S., Hare, J., Jaisawal, G. K., Malacaria, C., Wolff, M. T. <i>June 2024, The Astrophysical Journal, 968, 7.</i></p>
101	<p><i>X-ray and Radio Monitoring of the Neutron Star Low Mass X-ray Binary 1A 1744-361: Quasi Periodic Oscillations, Transient Ejections, and a Disk Atmosphere</i> Ng, M., Hughes, A. K., Homan, J., Miller, J. M., Pike, S. N., Altamirano, D., Bult, P. M., Chakrabarty, D., Buisson, D. J. K., Coughenour, B. M., Fender, R., Guillot, S., Güver, T., Jaisawal, G. K., Jaodand, A. D., Malacaria, C., Miller-Jones, J. C. A., Sanna, A., Sivakoff, G. R., Strohmayer, T. E., Tomsick, J. A., van den Eijnden, J. <i>May 2024, The Astrophysical Journal, 966, 232.</i></p>
100	<p><i>Rapid spin changes around a magnetar fast radio burst</i> Hu, C.-P., Narita, T., Enoto, T., Younes, G., Wadiasingh, Z., Ho, W. C. G., Baring, M. G., Guillot, S., Ray, P. S., Güver, T., Rajwade, K., Arzoumanian, Z., Kouveliotou, C., Harding, A. K., Gendreau, K. C., <i>February 2024, Nature, 626, 7999.</i></p>

- 99 **An updated mass-radius analysis of the 2017-2018 NICER data set of PSR J0030+0451**
Vinciguerra, S., Salmi, T., Watts, A. L., Choudhury, D., Riley, T. E., Ray, P. S., Bogdanov, S., Kini, Y., **Guillot, S.**, Chakrabarty, D., Ho, W. C. G., Huppenkothen, D., Morsink, S. M., Wadiasingh, Z., Wolff, M. T.
January 2024, *The Astrophysical Journal*, 961, 62.

2023

- 98 **Constraining the magnetic field geometry of the millisecond pulsar PSR J0030+0451 from joint radio, thermal X-ray and gamma-ray emission**
Pétri, J., **Guillot, S.**, Guillemot, L., Cognard, I., Theureau, G., Grießmeier, J.-M., Bondonneau, L., González-Caniulef, Webb, N., Jankowski, F., Kravtsov, I. P., McKee, J. W., Cecconi, B., Zarka, P.
December 2023, *Astronomy and Astrophysics*, 680, 93.
- 97 **Burst-Disk Interaction in 4U 1636-536 as observed by NICER**
Bostanci, F., Boztepe, T., Güver, T., Strohmayer, T., Cavecchi, Y., Gogus, E., Altamirano, D., Bult, P., Chakrabarty, D., **Guillot, S.**, Jasaiwal, G. K., Malacaria, C., Sanna, A., Swank, J. H.
November 2023, *The Astrophysical Journal*, 958, 55.
- 96 **Atmospheric Effects on Neutron Star Parameter Constraints with NICER**
Salmi, T., Vinciguerra, S., Choudhury, D., Watts, A. L., Ho, W. C. G., **Guillot, S.**, Kini, Y., Dorsman, B., Morsink, S. M., Bogdanov, S.
October 2023, *The Astrophysical Journal*, 956, 2.
- 95 **Thermonuclear Type-I X-ray Bursts and Burst Oscillations from the Eclipsing AMXP Swift J1749.4-2807**
Albayati, A. C., Bult, P., Altamirano, D., Chenevez, J., **Guillot, S.**, Güver, T., Jaisawal, G. K., Malacaria, C., Mancuso, G. C., Marino, A., Ng, M., Sanna, A., Strohmayer, T. E.,
September 2023, *The Monthly Notices of the Royal Astronomical Society*, 524, 2.
- 94 **Tormund's return : Hints of quasi-periodic eruption features from a recent optical tidal disruption event**
Quintin, E., Webb, N. A., **Guillot, S.**, Miniutti, G., Kammoun, E. S., Giustini, M., Arcodia, R., Soucail, G., Clerc, N., Amato, R., Markwardt, C. B.,
July 2023, *Astronomy & Astrophysics*, 675A, 152.
- 93 **Detection of millihertz quasi-periodic oscillations in the low-mass X-ray binary 4U 1730-22 with NICER**
Mancuso, G. C., Altamirano, D., Bult, P., Chenevez, J., **Guillot, S.**, Güver, T., Jaisawal, G. K., Malacaria, C., Ng, M., Sanna, A., Strohmayer, T. E.
June 2023, *The Monthly Notices of the Royal Astronomical Society*, 521, 4.
- 92 **On the cyclotron absorption line and evidence of the spectral transition in SMC X-2 during 2022 giant outburst**
Jaisawal, G. K., Vasilopoulos, G., Naik, S., Maitra, C., Malacaria, C., Chotaray, B., Gendreau, K. C., **Guillot, S.**, Ng, M., Sanna, A.
May 2023, *The Monthly Notices of the Royal Astronomical Society*, 521, 3.
- 91 **Magnetar spin-down glitch clearing the way for FRB-like bursts and a pulsed radio episode**
Younes, G., Baring, M. G., Harding, A. K., Enoto, T., Wadiasingh, Z., Pearlman, A. B., Ho, W. C. G., **Guillot, S.**, Arzoumanian, Z., Borghese, A., Gendreau, K. C., Gogus, E., Güver, T., van der Horst, A. J., Hu, C.-P., Jaisawal, G. K., Kouveliotou, C., Lin, L., Majid, W. A.
March 2023, *Nature Astronomy*, 7, 339.
- 90 **The 2022 high-energy outburst and radio disappearing act of the magnetar 1E 1547.0-5408**
Lower, M. E., Younes, G., Scholz, P., Camilo, F., Dunn, L., Johnston, S., Enoto, T., Sarkissian, J. M., Reynolds, J. E., Palmer, D. M., Arzoumanian, Z., Baring, M. G., Gendreau, K., Gogus, E., **Guillot, S.**, Van der Horst, A. J., Hu, C.-P., Kouveliotou, C., Lin, L., Malacaria, C., Stewart, R., Zadiasingh, Z.
March 2023, *The Astrophysical Journal*, 945, 153L.
- 89 **X-PSI: A Python package for neutron star X-ray Pulse Simulation and Inference**
Riley, T. E., Choudhury, D., Salmi, T., Vinciguerra, S., Kini, Y., Dorsman, B., Watts, A. L., Huppenkothen, D., **Guillot, S.**
February 2023, *Journal of Open Source Softwares*, 8, 4977.
- 88 **The unaltered pulsar: GRO J1750-27, a super-critical X-ray neutron star that doesn't blink an eye**
Malacaria, C., Ducci, L., Falanga, M., Altamirano, D., Bozzo, E., **Guillot, S.**, Jaisawal, G. K., Kretschmar, P., Ng, M., Pradhan, P., Rothschild, R., Sanna, A., Thalhhammer, P., Wilms, J.
January 2023, *Astronomy & Astrophysics*, 669, 38.

2022

- 87 **The Radius of PSR J0740+6620 from NICER with NICER background estimate**
Salmi, T., Vinciguerra, S., Choudhury, D., Riley, T. E., Watts, A. L., Remillard, R. A., Ray, P. S., Bogdanov, S., **Guillot, S.**, Arzoumanian, Z., Chirenti, C., Dittmann, A. J., Gendreau, K. C., Ho, W. C. G., Miller, M. C., Morsink, S. M., Wadiasingh, Z., Wolff, M. T.
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- 86 **The thermonuclear X-ray bursts of 4U 1730-22**
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5	Determining the Equation of State of Cold, Dense Matter with X-ray Observations of Neutron Stars Bogdanov, S.; Watts, A. L.; Chakrabarty, D.; Arzoumanian, Z.; Guillot, S. ; Gendreau, K. C.; Lamb, F. K.; Maccarone, T.; Miller, M. C.; Ozel, F.; Ray, P. S.; Wilson-Hodge, C. A. May 2019, <i>White Paper for the US Astro2020 Decadal Survey (arXiv:1903.04648)</i> .
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2	The broad X-ray emission of the millisecond pulsar PSR J0437-4715 Guillot S. August 2018, published in "IAU Proceedings Series, Conference IAUS 337: Pulsar Astrophysics: The Next 50 years"
1	Neutron stars in globular clusters as tests of nuclear physics Guillot S. 2016, <i>MmSAI vol. 87, 512</i> .

E. List of Gamma-ray Coordinate Network (GCN) Circulars

2	GRB 221009A: NICER follow-up observations Iwakiri, W., Jaisawal, G. K., Younes, G., Wadiasingh, Z., Guillot, S. , Gendreau, K. C., Arzoumanian, Z., Ferrara, E., Mihara, T., Pasham, D., Miller, J. M., Sanna, A., Malaria, C., Markwardt, C. B. 2022, <i>GCN Circular 32694</i> .
1	LIGO/Virgo S200115j: no counterpart candidate in SVOM/GWAC observations Wei, J. Y., Guillot S. , Wang, J. Basa, S., Han, X. H. 2020, <i>GCN Circular 26786</i>

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38	NICER Discovers Millisecond Pulsations and a Type I X-ray Burst from SRGA J144459.2-604207 Ng, M., Sanna, A., Strohmayer, T. E., Arzoumanian, Z., Gendreau, K. C., Ray, P. S., Coley, J. B., Chakrabarty, D., Guillot, S. , Bogdanov, S., Altamirano, D., Chenevez, J., Hare, J., Wolff, M. T., Güver, T., Jaisawal, G. K., Wadiasingh, Z., Ferrara, E. C. 2024, <i>The Astronomer's Telegram, 16474</i> .
37	NICER confirms a new outburst from IGR J17498-2921 Sanna, A., Ng, M., Guillot, S. , Altamirano, D., Gendreau, K. C., Arzoumanian, Z., Ferrara, E. C. Chakrabarty, D., Strohmayer, T. E., Ray, P. S., Bogdanov, S., Bult, P. M. 2023, <i>The Astronomer's Telegram, 15998</i> .
36	NICER Detects Pulsations from Swift J0243.6+6124 Ng, M., Sanna, A., Chakrabarty, D., Malacaria, C., Jaisawal, G. K., Pradhan, P., Coley, J. B., Wolff, M. T., Guillot, S. , Arzoumanian, Z., Gendreau, K. C., Ferrara, E. C. 2023, <i>The Astronomer's Telegram, 15987</i> .
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34	NICER follow-up observations of transient activity from Terzan 1 Homan, J., Arzoumanian, Z., Gendreau, K. C., Strohmayer, T. E., Guillot, S. , Sanna, A., Ng, M., Chakrabarty, D. 2023, <i>The Astronomer's Telegram, 15957</i> .
33	Chandra verifies the current transient outburst in the globular cluster Terzan 5 is from Terzan 5 X-3 Heinke, C. O., Homan, J., Van den Berg, M., Guillot, S. , Bahramian, A., Pooley, D., Sivakoff, G. 2023, <i>The Astronomer's Telegram, 15953</i> .
32	NICER detection of renewed activity from 4U 1730-22 Mancuso, G. C., Altamirano, D., Bult, P. M., Sanna, A., Güver, T., Guillot, S. 2023, <i>The Astronomer's Telegram, 15945</i> .

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- 18 NICER follow-up observation and a candidate timing anomaly from Swift J1818.0-1607**
Hu, Chin-Ping, Strohmayer, T. E., Ray, P. S., Enoto, T., Güver, T., **Guillot, S.**, Jaisawal, G. K., Younes, G., Gendreau, K. C., Arzoumanian, Z., Malacaria, C., Wadiasingh, Z., Majid, W. A.
2020, *The Astronomer's Telegram*, 13588.
- 17 NICER detection of 1.36 sec periodicity from a new magnetar, Swift J1818.0-1607**
Enoto, T., Sakamoto, T., Younes, G., Hi, Chin-Ping, Ho, W. C. G., Gendreau, K. C., Arzoumanian, Z., Güver, T., **Guillot, S.**, Altamirano, D., Ray, P. S., Ng, M., Chakrabarty, D., Jaisawal, G. K., Bogdanov, S.
2020, *The Astronomer's Telegram*, 13551.
- 16 NICER detection of 9.29 s pulsations from RX J0209.6-7427**
Iwakiri, W., Wolff, M. T., Vasilopoulos, G., Gendreau, K., Arzoumanian, Z., Markwardt, C., Strohmayer, T. E., Ray, P. S., Altamirano, D., Mihara, T., Negoro, H., **Guillot, S.**, Jaisawal, G. K.
2019, *The Astronomer's Telegram*, 13309.

- 15 NICER detects a high luminosity flare from SAX J1808.4–3658**
Bult, P. M., Gendreau, K. C., Arzoumanian, Z., Strohmayer, T. E., Chakrabarty, D., Jaisawal, G. K., Chenevez, J., **Guillot, S.**, Güver, T.
2019, *The Astronomer's Telegram*, 13077.
- 14 NICER detects X-ray pulsations from the rapidly brightening SAX J1808.4–3658**
Bult, P. M., Gendreau, K. C., Arzoumanian, Z., Chakrabarty, D., Ray, P. S., **Guillot, S.**, Wolff, M. T., Bogdanov, S., Ludlam, R. M.
2019, *The Astronomer's Telegram*, 13001.
- 13 NICER detection of QPOs from EXO 1846–031**
Bult, P. M., Gendreau, K. C., Arzoumanian, Z., Strohmayer, T. E., Ray, P. S. **Guillot, S.**, Iwakiri, W., Homan, J., Altamirano, D., Jaisawal, G. K., Miller, J. M.
2019, *The Astronomer's Telegram*, 12976.
- 12 NICER follow-up observations of the accreting millisecond X-ray pulsar MAXI J0911–655**
Bult, P. M., Gendreau, K. C., Strohmayer, T. E., Arzoumanian, Z., Altamirano, D., **Guillot, S.**
2019, *The Astronomer's Telegram*, 12869.
- 11 NICER follow-up observation of the transient magnetar XTE J1810–197**
Güver, T., Majid, W., Enoto, T., Gogus, E., Vurgun, E., Gendreau, K. C., Arzoumanian, Z., Jaisawal, G. K., **Guillot, S.**, Ray, P. S., Ho, W. C. G., Malacaria, C.
2019, *The Astronomer's Telegram*, 12484.
- 10 NICER follow-up observations of the transient system Swift J1728.9–3613**
Enoto, T., Altamirano, D., Bult, P. M., Gendreau, K. C., Arzoumanian, Z., Strohmayer, T. E., Ray, P. S., **Guillot, S.**, Jaisawal, G. K., Uttley, P., Homan, J., NICER Team
2019, *The Astronomer's Telegram*, 12455.
- 9 NICER identification of MAXI J1348–630 as a probable black hole X-ray binary**
Sanna, A., Uttley, P., Altamirano, D., Homan, J., Jaisawal, G. K., Gendreau, K., Arzoumanian, Z., Güver, T., Bozzo, E., Ferrigno, C., Papitto, A., Burderi, L., Riggio, A.; Di Salvo, T.; Miller, J. M.; **Guillot, S.**, Neilsen, J.
2019, *The Astronomer's Telegram*, 12447.
- 8 Identification of Swift J005139.2–721704 with the transient SMC pulsar XTE J0052–723 (SXP 4.78)**
Strohmayer, T. E., **Guillot, S.**, Vasilopoulos, G., Pasham, D., Jaisawal, G. K., Ray, P. S., Wolff, M. T., Gendreau, K. C., Arzoumanian, Z., Corcoran, M., Altamirano, D., Wilson-Hodge, C., Antoniou, V., Zezas, A., Haberl, F., Maytra, C., Kennea, J. A., Jenke, P. A., Pope, J.
2018, *The Astronomer's Telegram*, 12222.
- 7 NICER observations of the new transient SWIFT J005139.2–721704 in the Small Magellanic Cloud**
Guillot, S., Vasilopoulos, G., Pasham, D., Jaisawal, G. K., Ray, P. S., Wolff, M. T., Gendreau, K. C., Strohmayer, T. E., Arzoumanian, Z., Corcoran, M., Altamirano, D., Wilson-Hodge, C., Antoniou, V., Zezas, A., Haberl, F.
2018, *The Astronomer's Telegram*, 12219.
- 6 Initial NICER observation of the new X-ray transient Swift J1858.6–0814**
Ludlam, R. M., Miller, J. M., Gendreau, K. C., Arzoumanian, Z., Bult, P. M., Strohmayer, T. E., Markwardt, C. B., Homan, J., Uttley, P., Cackett, E. M., Chakrabarty, D., Altamirano, D., Steiner, J., Jaisawal, G. K., **Guillot, S.**, Wolff, M. R., Ray, P. S., Fabian, A. C.
2018, *The Astronomer's Telegram*, 12158.
- 5 IGR J17591–2342 second re-brightening observed with NICER**
Ray, P. S., Gendreau, K. C., Bult, P. M., Arzoumanian, Z., Strohmayer, T. E., Chakrabarty, D., Altamirano, D., **Guillot, S.**, Ferrigno, C., Bozzo, E., Sanna, A., Burderi, L., Papitto, A. & Di Salvo, T.
2018, *The Astronomer's Telegram*, 12050.
- 4 IGR J17591–2342 is a 527-Hz accreting millisecond pulsar in outburst**
Ferrigno, C., Bozzo, W., Sanna, A., Papitto, A., Ray, P. S., Bult, P. M., Strohmayer, T. E., Gendreau, K. C., Arzoumanian, Z., **Guillot, S.**, Jaisawal, G. K., Altamirano, D., Chakrabarty, D., Bogdanov, S. & Enoto, T.
2018, *The Astronomer's Telegram*, 11957.
- 3 NICER detection of the new X-ray transient MAXI J1727–203**
Ludlam, R. M., Bult, P. M., Gendreau, K. C., Arzoumanian, Z., Markwardt, C. B., Strohmayer, T. E., Mahmoodifar, S., Ray, P. S., Neilsen, J., Iwakiri, W., **Guillot, S.**, Altamirano, D., Jaisawal, G. K., Enoto, T., Stevens, A. L., Eikenberry, S., Homan, J. & Steiner, J.
2018, *The Astronomer's Telegram*, 11689.
- 2 NICER discovers millisecond pulsations from the neutron star LMXB IGR J17379–3747**
Strohmayer, T. E., Ray, P. S., Gendreau, K. C., Bult, P. M., **Guillot, S.**, Mahmoodifar, S., Jaisawal, G. K., Arzoumanian, Z., Altamirano, D., Bogdanov, S., Chakrabarty, D., Enoto, T., Markwardt, C. B., Ozel, F. & Ransom, S. M.
2018, *The Astronomer's Telegram*, 11507.
- 1 NICER Detects Pulsations from Swift J1756.9–2508**
Bult, P. M., Gendreau, K. C., Ray, P. S., Altamirano, D., Arzoumanian, Z., Chakrabarty, D., **Guillot, S.**, Jaisawal, G. K., Ludlam, R. M., Markwardt, C. B., Mereminskiy, I. A., Ozel, F., Sanna, A., Strohmayer, T. E. & Wolff, M. T.
2018, *The Astronomer's Telegram*, 11502.

G. Seminar Presentations (marked with ** when invited to an Institute Seminar or Colloquium)

26	04/2023	Athena Webinar Series		<i>Athena X-ray Advances series: ACO Science Webinars</i>
25	06/2020	IASF-INAF Seminar	**	Istituto di Astrofisica Spaziale e Fisica Cosmica, INAF, Palermo, Italie
24	04/2020	Séminaire APC		Laboratoire Astroparticule et Cosmologie, Paris, France
23	04/2020	Séminaire LUTH	**	Laboratoire Univers & Théories, Observatoire de Paris-Meudon, France
22	02/2020	Séminaire LPC2E	**	Laboratoire de Physique et de Chimie de l'Environnement et de l'Espace, Orleans
21	12/2019	Séminaire IPAG	**	Institut de Planétologie et d'Astrophysique de Grenoble, France
20	04/2018	Séminaire APC		Laboratoire Astroparticule et Cosmologie, Paris, France
19	04/2018	Séminaire IPNL	**	Institut de Physique Nucléaire de Lyon, France
18	09/2017	Séminaire OAS	**	Observatoire Astronomique de Strasbourg, France
17	04/2017	Graviticulas Seminars		Instituto de fisica, PUC, Santiago, Chile
16	04/2017	Séminaire IAP		Institut d'Astrophysique de Paris, France
15	03/2017	Séminaire IRAP	**	Institut de Recherche en Astrophysique et Planétologie, Toulouse, France
14	02/2017	MSU Physics Colloquium	**	Montana State University, Bozeman, MT, USA
13	11/2016	Astro DEC Seminar	**	Universidad de Concepción, Chili
12	06/2016	SRON Seminar		Netherlands Institute for Space Research, Utrecht, Netherlands
11	04/2016	Séminaire IPNL	**	Institut de Physique Nucléaire de Lyon, France
10	04/2016	Séminaire IRAP	**	Institut de Recherche en Astrophysique et Planétologie, Toulouse, France
9	01/2016	JINA-CEE Online Seminar	**	Joint Institute for Nuclear Astrophysics
8	09/2015	Séminaire LUTH		Laboratoire Univers & Théories, Observatoire de Paris-Meudon, France
7	06/2015	Astronomy Dept. Seminar	**	University of Maryland, College Park, MD, USA
6	10/2013	ITC Seminar	**	Institute for Theory & Computation, Harvard CfA, Cambridge, MA, USA
5	07/2013	CEA-DAP Lunch Seminar		CEA-Saclay, France
4	06/2013	CITA Seminar	**	Canadian Institute for Theoretical Astrophysics, University of Toronto, Canada
3	02/2013	INP Seminar	**	Institute for Nuclear Physics, University of Washington, Seattle, WA, USA
2	02/2013	JILA Seminar		Joint Institute for Laboratory Astrophysics, U of Colorado, Boulder, CO, USA
1	01/2009	Séminaire CESR	**	Centre d'Etudes Spatiale des Rayonnements, Toulouse, France

H. Invited reviews and presentations in national and international conferences

26	09/2024	Conference "Nuclear Physics in Astrophysics XI" , Dresden, Germany Title: <i>Latest news and future prospects on measurements of neutron star masses and radii</i>	Invited plenary talk
25	06/2024	Conference "The X-ray mysteries of neutron stars and white dwarfs" , Madrid, Spain Title: <i>Latest news and future prospects on measurements of neutron star masses and radii</i>	Invited presentation
24	06/2024	Conference "Journées annuelles de la SF2A 2024" , Marseille, France Title: <i>The Extreme Physics of Neutron Stars: An observer's view point</i>	Invited plenary talk
23	04/2024	ECT* Workshop "The physics of strongly interacting matter" , Trento, Italy Title: <i>The role of X-ray astrophysics to the understanding of strongly interacting matter</i>	Invited presentation
22	01/2024	Conference "60th International Winter Meeting on Nuclear Physics 2024" , Bormio, It. Title: <i>Updates and prospects on measurements of neutron star masses and radii</i>	Invited presentation
21	09/2023	Conference "NuSYM 2023" , Darmstadt, Germany Title: <i>Current status of NICER's measurements of the neutron star masses and radii</i>	Invited presentation (online)
20	06/2023	Conference "The X-ray Universe 2023" , Athens, Greece Title: <i>Studying nuclear physics with X-ray observations of neutron stars</i>	Invited plenary talk
19	06/2023	Summer School "The Transient Universe 2023" , Cargèse, France Title: <i>Neutron stars</i>	Invited lecture
18	03/2023	Conference "Rencontres de Moriond – Gravitation" , La Thuile, Italy Title: <i>The role of SVOM for Gravitational Wave Astrophysics</i>	Invited presentation
17	09/2022	Conference "NuSYM 2022" , Catania, Italy Title: <i>Nuclear physics at hundreds of parsecs with neutron stars</i>	Invited presentation
16	07/2022	INT Workshop "Neutron Rich Matter on Heaven and Earth" , Seattle, USA Title: <i>M-R constrains on the equation of state using phase-averaged X-ray observations</i>	Invited review (remotely)
15	06/2022	Conference "EAS 2022" (Parallel session on eXTP) , Valencia, Spain Title: <i>Understanding dense nuclear matter: from NICER to eXTP</i>	Invited presentation
14	03/2022	Conference "FERO10: Finding Extreme Relativistic Objects" , Toulouse, France Title: <i>Scientific highlights from the NICER mission</i>	Invited presentation

13	12/2021	Thematic Winter School PhyNUBE , Aussois, France Title: <i>Neutron star observations</i>	Invited lecture
12	08/2020	Conference “COSPAR 2020” , Sydney, Australie — <i>Participation cancelled (COVID19)</i> Title: <i>The SVOM gamma-ray burst mission</i>	Invited presentation
11	08/2020	Conference “COSPAR 2020” , Sydney, Australie — <i>Participation cancelled (COVID19)</i> Title: <i>A broad review of neutron star radius measurements and EoS constraints</i>	Invited review
10	04/2019	Workshop “MODE-SNR-PWN” , Orléans, France Title: <i>First results on the dense matter equation of state from NICER</i>	Invited presentation
9	10/2018	Meeting “Neutron star EOS and superconductivity” (Programme PHAROS), Coimbra, Title: <i>An overview of EoS constraints from electromagnetic observations of neutron stars</i>	Invited review
8	09/2018	Workshop du Groupement de Recherche RESANET , Paris, France Title: <i>A review of observational efforts to measure neutron star radii</i>	Invited review
7	06/2016	Conference “NuSYM 2016” , Beijing, China Title: <i>Neutron Star radius measurements: New results and future prospects</i>	Invited presentation
6	05/2016	JINA-CEE Symposium “Neutron Star in the Multi-messenger Era” , Ohio U., Athens Title: <i>Neutron Star Radius Measurements: Challenges and Prospects</i>	Invited presentation
5	09/2015	“NewCompStar School” , Bucharest, Romania Title: <i>Equation of State Constraints from Neutron Star Observations</i>	Invited presentation
4	06/2015	Conference “The Neutron Star Radius and all that Jazz” , Montreal, Canada Title: <i>Let’s Jazz up the Neutron Star Radius Measurements</i>	Invited presentation
3	06/2015	Gordon Conference on “Nuclear Matter Equation of State” , New London, NH Title: <i>Combining Neutron Star Observations to Constrain the Dense Matter EoS</i>	Invited presentation
2	03/2015	JINA-CEE Frontiers Meeting 2015 , Michigan State Univ., Lansing, MI Title: <i>Neutron Star Observations in Nuclear Astrophysics</i>	Invited review
1	03/2014	Conference “Structure and Signals of Neutron Stars” , Galileo Galilei Institute, Florence Title: <i>Measuring M_{NS}, M_{NS}/R_{NS}, R_{NS}</i>	Invited presentation

I. Presentations in national and international conferences

29	03/2024	Consortium Meeting of the Theseus mission , Paris, France Title: <i>Gamma-ray bursts precursors and nuclear physics: the contribution of Theseus</i>
28	09/2023	Annual Meeting of the Programme National des Hautes Energies , Paris, France Title: <i>Probing dense matter inside Neutron stars - From NICER to (New)ATHENA</i>
27	11/2022	Conference “Exploring the Hot and Energetic Universe” , Barcelona, Spain Title: <i>Probing millisecond pulsars at high energies with current and future observatories</i>
26	10/2022	General Assembly of the GdR Ondes Gravitationnelles , Toulouse, France Title: <i>GW and EM observations of neutron stars to constrain dense matter</i>
25	06/2022	ECT* Workshop “Neutron stars as multi-messenger laboratories for dense matter” , Trento, Italy Title: <i>Neutron star astrophysics with the SVOM mission</i>
24	06/2022	ECT* Workshop “Neutron stars as multi-messenger laboratories for dense matter” , Trento, Italy Title: <i>Constraining nuclear physics parameters from astrophysical data</i>
23	06/2022	Annual Conference SF2A 2022 , Besancon, France Title: <i>Continuous gravitational waves from isolated neutron stars</i>
22	05/2022	Conference PHAROS 2022 , Rome, Italy Title: <i>Neutron star astrophysics with the SVOM mission</i>
21	12/2021	Mini-symposium L2IT-IRAP on Gravitational Waves , Toulouse, France Title: <i>Continuous gravitational waves from isolated neutron stars</i>
20	10/2019	Conference “NuSYM 2019” , Da Nang, Vietnam Title: <i>Measuring the radius of neutron stars with NICER</i>
19	05/2019	Annual Conference SF2A SF2A 2019 , Nice, France Title: <i>The cold surface emission from old neutron stars</i>
18	04/2019	Conference PHAROS 2019 , Barcelona, Spain Title: <i>X-ray pulsation searches from neutron stars with NICER</i>

17	07/2018	Conference COSPAR Assembly 2018 , Pasadena, CA, USA Title: <i>The surface emission of old neutron stars: a gold mine for fundamental physics</i>
16	07/2018	Conference COSPAR Assembly 2018 , Pasadena, CA, USA Title: <i>Testing physics with quiescent low-mass X-ray binaries</i>
15	07/2018	Annual Conference SF2A SF2A 2018 , Bordeaux, France Title: <i>Dense matter equation of state constraints with observations of neutron stars</i>
14	06/2018	Workshop “MODE-SNR-PWN” , Montpellier, France Title: <i>The Neutron Star Interior Composition ExploreR</i>
13	06/2018	Workshop “MODE-SNR-PWN” , Montpellier, France Title: <i>The surface emission of old neutron stars</i>
12	07/2017	Conference “The X-ray Universe” , Rome, Italy Title: <i>ATHENA’s constraints on the dense matter equation of state from qLMXBs.</i>
11	03/2017	Conference NewCompStar 2017 , Warsaw, Poland, Title: <i>Measuring the neutron star radius with NICER.</i>
10	07/2016	Conference “European Week of Astronomy and Space Sciences 2016” , Athens, Greece. Title: <i>The Surface Emission of the Magnetar SGR 0418+5729.</i>
9	04/2016	Conference “Star Cluster as Cosmic Laboratories for Astrophysics – MODEST 16” , Bologna, Italy. Title: <i>Neutron Stars in Globular Clusters as Tests of Nuclear Physics.</i>
8	05/2014	Conference “Frontiers of Neutron Star Astrophysics” , Ithaca, USA. Title: <i>Measuring the Neutron Star Radius to Constrain the Dense Matter Equation of State.</i>
7	03/2014	Conference “Structure and Signals of Neutron Stars: from Birth to Death” , Florence, Italy. Title: <i>The Neutron Star Radius and the Dense Matter Equation of State.</i>
6	01/2014	Conference “223rd meeting of the American Astronomical Society” , Washington DC, USA. Title: <i>The Neutron Star Radius and the Dense Matter Equation of State.</i>
5	12/2013	Workshop “4th Bonn Neutron Star Workshop” , Bonn, Allemagne. Title: <i>The Neutron Star Radius and the Dense Matter Equation of State.</i>
4	01/2013	Conference “27th Texas Symposium on Relativistic Astrophysics” , Dallas, USA. Title: <i>The Measurement of the Neutron Stars Radius.</i>
3	01/2013	Conference “221st meeting of the American Astronomical Society” , Long Beach, USA. Title: <i>Measuring the Radius of Neutron Stars.</i>
2	07/2012	Conference “X-Ray Binaries: Celebrating 50 years Since the Discovery of Sco X-1” , Boston, USA. Title: <i>Measuring the Radius of Neutron Stars.</i>
1	07/2009	Conference “12th Marcel Grossmann Meeting” , Paris, France. Title: <i>Discovery of qLMXBs in globular clusters: a step to constrain the dense matter equation of state.</i>

J. Posters presented in national and international conferences

10	04/2019	Conference PHAROS 2019 , Barcelona, Spain Title: <i>The cold surface of neutron stars as probes of fundamental physics</i>
9	03/2019	Conference “High-Energy Astrophysics Division of the AAS 2019” , Monterey, CA, USA Title: <i>Searching for thermally-emitting millisecond pulsars with NICER</i>
8	06/2018	Workshop “ESA Workshop on ultra-luminous X-ray pulsars” , Madrid, Spain Title: <i>NICER’s view of ultra-luminous X-ray sources</i>
7	09/2017	Conference “IAU Symposium 337: Pulsar Astrophysics” , Manchester, UK Title: <i>The broadband X-ray emission of the millisecond pulsar PSR J0437-4715</i>
6	10/2015	Conference “Latin American Regional IAU Meeting 2016” , Cartagena, Colombia Title: <i>Testing nuclear physics with neutron stars in globular clusters</i>
5	09/2015	Conference “Exploring the Hot and Energetic Universe: The 1st ATHENA Meeting” , Madrid, Spain Title: <i>Constraining the dense matter equation of state with ATHENA-WFI observations of neutron stars</i>
4	08/2014	Conference “High-Energy Astrophysics Division of the AAS 2014” , Chicago, IL, USA Title: <i>The Measurement of the Neutron Star Radius</i>
3	07/2013	Conference “NuSYM 2013” , East Lansing, MI, USA Title: <i>The Measurement of the Neutron Star Radius</i>

2	06/2008	Conference “212th meeting of the American Astronomical Society” , St-Louis, MS, USA Title: <i>X-ray spectral identification of three Candidate qLMXBs in the Globular Cluster NGC 6304.</i>
1	05/2008	Conference “Canadian Astronomical Society Annual meeting” , Victoria, Canada Title: <i>X-ray spectral identification of three Candidate qLMXBs in the Globular Cluster NGC 6304.</i>