

Natalie Webb

- **EDUCATION**

- 2012 Accreditation to supervise research, higher diploma (HDR) , Faculty of Science and Engineering, University of Toulouse III, Toulouse, France
- 1997-2000 PhD Astrophysics: Astrophysics department, Keele University, England, UK, supervisor : Prof. Tim Naylor. Grant : PPARC.
- 1996-1997 Master Astronomy, Dept. of Physics & Astronomy, University of Sussex, UK. Grant: PPARC

- **CURRENT POSITION**

- 2024-... Exceptional class Astronomer (full professor), Institut de Recherche en Astrophysique et Planétologie (IRAP, formerly the CESR), University of Toulouse, France

- **PREVIOUS POSITIONS**

- 2019-2024 First class Astronomer (full professor, IRAP), University Toulouse III - Paul Sabatier, Toulouse, France
- 2016-2019 Astronomer (full professor), IRAP, University Toulouse III - Paul Sabatier, Toulouse, France
- 2004-2016 Assistant astronomer (assistant professor), IRAP, University Toulouse III - Paul Sabatier
- 2000-2004 Post-doc, Centre d'Etude Spatiale des Rayonnements (CESR), Toulouse, France

RESEARCH – keywords : compact objects – accretion – multi-wavelength observations – modelling – radiative processes

Areas : black hole evolution -- neutron star equation of state – particle acceleration

- **SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS**

- 2003-present **9 Postdocs** (2004-2005: A. Martocchia, 2007-2008 : S. Farrell, 2009-2012: D. Lin, 2012-2015: I. Zolotukhin, 2015-2021: F. Koliopanos, 2021-2023: R. Amato, 2021-2023, M. Gupta, 2023-2024 : N. Khan, 2023-present: Robbie Webbe)
- 8 PhD students** (2005-2008: M. Servillat, 100% supervision, 2008-2011: B. Pancrazi, 80% supervision, 2015-2019: N. Baillot-Etivaux, 20% supervision, 2019-2022: H. Tranin, 100% supervision, 2020-2023: E. Quintin, 100% supervision, 2022-2025 : V. Foustoul 100% supervision, 2024-2027 : C. Kazantsev 20% supervision, 2026-2029 : J. Massip 100% supervision)
- 36 Master Students** (2003: D. Serre, 2005: J. Soum, 2006: S. Dupuy, F. Couvrat, 2007: S. Dupuy, 2008: D. Villa-Pascual, J. Rodrigues, 2011: D. Sossai, D. Séguignes, 2012: D. Turpin, A. Jardin-Blicq, 2013: B. Hacker, A. Pitelet, 2014: M. Mrkalj, G. Garrel, 2015: A. Detoeuf, N. Baillot d'Etivaux, 2016: M. Pichardo Marcano, 2017: S. Soler, D. Wojtowicz, 2018: I. Pastor Marazuela, A. Decroocq, M. Thepenier, 2019: X. Astiasarain, C. Diez, 2020 : E. Quintin, F. Castellani, 2021 : B. Chalot, L. Issa, 2022: V. Foustoul, 2023 : A. Perrocheau, 2024 : G. Dupont, A. Keumurian, 2025 : L. Roosens, C. Deher, 2026 : M. O. Raharijaona Ndrianarilala)

- **TEACHING ACTIVITIES**

- 2016-2025 Head of Masters in Astrophysics, Space Science and Planetary physics (ASEP), University Toulouse III - Paul Sabatier, Toulouse, France
- 2004-present 60-90h/yr of lectures/ problem/lab classes for undergraduate & masters students – Topics: Astrophysics, Physics, Maths, Scientific English. University Toulouse III & National Institute of Applied Sciences (INSA) & ISAE-Supaero, Toulouse, France
- 1997-2000 60h/yr of lab classes (electronics, astrophysics) for undergraduates. Keele University, UK

• ORGANISATION OF SCIENTIFIC MEETINGS

- 2026 Chair of SOC for "l'Atelier Bien-être", SF2A, Grenoble, France
- 2026 Chair of SOC "37th XMM-Newton Survey Science Centre (SSC) Consortium Meeting", Potsdam, Germany
- 2025 Member of SOC « X-ray Quasi-Periodic Eruptions & Repeating Transients, ESAC, Espagne
- 2025 Member of SOC of « Unveiling massive black hole evolution with gravitational waves and light », Paris, France
- 2025 Member of SOC for « Astronomie du ciel transitoire et multi-messagers », SF2A, Toulouse
- 2025 Chair of SOC for "l'Atelier Bien-être", SF2A, Toulouse, France
- 2025 Chair of SOC « The gravitational wave sky & complementary observations » Toulouse, France
- 2024 Member of SOC "Extreme acc. events in SMBH", COSPAR, South Korea
- 2024 Member of SOC "The X-ray mysteries of neutron stars & white dwarfs", ESAC, Spain
- 2024 Chair du SOC "XMM-Newton survey legacy for Athena and beyond", IRAP
- 2024 Chair of SOC "36th XMM-Newton Survey Science Centre (SSC) Consortium Meeting", Toulouse
- 2024 Chair of SOC for "l'Atelier Bien-être", SF2A, Marseille, France
- 2023 Member of SOC for "Black-hole accretion discs 50 years on", EAS Poland
- 2023 Member of SOC for "The X-ray Universe 2023", Athens, Greece
- 2023 Chair of SOC for "l'Atelier Bien-être", SF2A, Strasbourg, France
- 2022 Chair of the 35th XMM-Newton-SSC Consortium Meeting, Athens, Greece
- 2022 Chair of SOC for "l'Atelier Bien-être", SF2A, Besançon, France
- 2022 Member of SOC for "The ESO archives", EAS, Valence, Spain
- 2022 SOC member for "The ESA Space Science Archives workshop", EAS, Spain (~50 parti.)
- 2022 SOC member and invited lecture "Athena Summer school", Toulouse, France
- 2022 SOC member "Black hole accretion under the X-ray microscope", ESAC, Spain
- 2022 Member of SOC/LOC for "Finding Extreme Relativistic Objects", Toulouse, France
- 2021 Chair of 34th XMM-Newton Survey Science Centre (SSC) Consortium Meeting, zoom, (~50 participants)
- 2021 Chair of Kick-off meeting for the H2020 XMM2ATHENA project, zoom (~60 participants)
- 2021 SOC member for "The ESA Space Science Archives workshop", EAS, Leiden (~50 pers)
- 2021 Chair of "PhDs & Post-docs: Pleasure or woe", French week of astronomy, zoom (~200)
- 2020 Chair of 33rd XMM-Newton SSC Consortium Meeting, zoom, (~30 participants)
- 2020 SOC member for "XMM-Newton: Current scientific highlights & future prospects", EAS, Leiden, Netherlands (~100 participants)
- 2020 SOC member for "Extremes in accretion onto strongly magnetised neutron stars: Observations vs. theory", EAS, Leiden, Netherlands (~50 participants)
- 2020 Chair of "PhDs & Post-docs: Pleasure or woe", French week of astronomy, Paris (~30)
- 2020 SOC member of "The X-ray Universe", ESAC, Spain (~300 participants)
- 2019 Chair of 32nd XMM-Newton SSC Consortium Meeting, Strasbourg France (~30 partic.)
- 2019 SOC member for "Acc. onto highly magnetised neutron stars", EWASS, Lyon (~50 pers)
- 2018 SOC member for "Ultra Luminous X-ray Pulsars", ESAC, Spain (~50 participants)
- 2018 SOC chair for "Treasures Hidden in High Energy Catalogues", Toulouse, France (~90 p)
- 2018 Chair of 31st XMM-Newton SSC Consortium Meeting, Paris, France (~30 participants)
- 2017 SOC member of "The X-ray Universe", Rome, Italy (~300 participants)
- 2017 Chair of 30th XMM-Newton SSC Consortium Meeting, Garching, Germany (~30 person)
- 2016 SOC member of "ULXs and their Environment" workshop, Strasbourg, France, (~60 p.)
- 2016 Chair of 29th XMM-Newton SSC Consortium Meeting, Santander, Spain (~30 participant)
- 2015 Chair of 28th XMM-Newton SSC Consortium Meeting, MSSL, England (~30 participants)
- 2015 Co-chair of LOC for the Annual French National Astronomy meeting (SF2A), University Toulouse III - Paul Sabatier, Toulouse, France (~300 participants)
- 2014 Chair of 27th XMM-Newton SSC Consortium Meeting, Potsdam, Germany (~30 particip.)
- 2012 SOC member "X-ray Binaries, 50 Years Since Discovery of Sco X-1", Boston, USA (~100)

- 2011 Chair of LOC, 25th XMM-Newton SSC Consortium Meeting, Toulouse, France (~40 pers.)
- 2011 Chair of SOC/LOC for the Workshop 'The formation and evolution of intermediate mass black holes: the case of HLX-1 in ESO 243-49, IRAP, Toulouse, France (~30 participants)
- 2011 LOC member, CTA meeting, IRAP, Toulouse, France (~300 participants)
- 2005 Chair of LOC, 18th XMM-Newton SSC Consortium Meeting, Toulouse, France (~40 pers)
- 2003 LOC member, 15th XMM-Newton SSC Consortium Meeting, Paris, France (~45 pers)
- 2001 LOC member, 12th XMM-Newton SSC Consortium Meeting, Toulouse (~50 participants)

• INSTITUTIONAL RESPONSIBILITIES

- 2024-2029 President of the French Space Agency (CNES) advisory group for Astronomy & Astrophysics (GTAA)
- 2021-2025 Elected member of the Administration council of the OMP, Toulouse
- 2022-... EDI officer, IRAP, Toulouse
- 2020-present President of the ESA Astronomy Archives User Group
- 2020-present Member of the Midi-Pyrenees Observatory council, Toulouse, France
- 2016-2020 President of the Administrative council of the Astronomical Observatory of Strasbourg
- 2019-present Member commission for Astronomical duties, Midi-Pyrenees Observatory, France
- 2016-2020 Head of department (GAHEC, 60 members), IRAP, Toulouse, France
- 2015-present Project scientist for the Athena X-IFU science ground segment and Co-I of Athena mission
- 2014-present Co-chair of the Mission Working Group 5.1 for Athena (ground segment)
- 2013-present Head of the XMM-Newton Survey Science Consortium (10 European institutes)
- 2013-present Affiliated NuSTAR scientist
- 2013-present Co-I SVOM mission
- 2011-2015 Co-responsible for the Astrophys. of compact objects group, GAHEC, IRAP
- 2010 Head of the High Energy department at the CESR
- 2009-2010 Deputy-head of the High Energy department at the CESR
- 2008-present Member of the study group/consortium for the Cherenkov Telescope Array (CTA)
- 2008-present Affiliated Fermi scientist
- 2006-2010 Member of the CESR (Toulouse, France) webpage commission
- 2005-present Co-investigator (Co-I) of the XMM-Newton Survey Science Centre
- 2004-2010 Seminar organiser at the CESR, Toulouse, France

• COMMISSIONS OF TRUST

- 2026 Member of the committee to select a new professor for the L2IT, Toulouse, France
- 2026 PhD examiner for Noa Grollmund, AIM, CEA, Saclay, France
- 2026 President of PhD jury for Manuel Piarulli, L2IT, Toulouse, France
- 2026 Examiner for the PhD of Thomas Oliveira, Observatoire Astronomique de Strasbourg
- 2026 Member of PhD monitoring committee for Cara Dignam, IRAP, Toulouse
- 2025 External PhD referee Karim Abd El Dayem, Observatoire de Paris, France
- 2025 External PhD referee Julia Lascar, AIM, CEA, Saclay, France
- 2025 President of PhD jury for Vivienne Langen, L2IT, Toulouse, France
- 2024 President of HDR jury Luigi Tibaldo, IRAP, Toulouse
- 2023-2025 Member of PhD monitoring committee for Thomas Oliveira, Observatoire Astronomique de Strasbourg
- 2024 Examiner for Miguel Llamas Lanza PhD, IRAP, Toulouse, France
- 2024 Examiner for the HDR of Astrid Lamberts, Observatoire Côte d'Azur, Nice, France
- 2024 Examiner for Vittoria Elvezia Gianolli's PhD, IPAG, Grenoble, France
- 2023-24 Chair of panel B for *XMM-Newton* observing time
- 2023-2025 Member of PhD monitoring committee for Antoine Zakardjian, IRAP, Toulouse
- 2023 External PhD referee for Mathilde Espinasse, AIM, CEA, Saclay, France
- 2022-... Appointed member of the Pôle d'experts, Ministère de la Recherche Française

2022-2024 Member of the monitoring committee for Maxime Parra, IPAG, Grenoble

2022 External PhD referee for Norman Khan, University of Southampton, UK

2022 Examiner for Edoardo Vitral's PhD, IAP, Paris, France

2022 President of the PhD jury for Benjamin Arcier, IRAP, Toulouse, France

2022 Examiner for Eduardo Vitral's PhD, IAP, France

2021 External member to evaluate STFC proposals, UK

2021 External member of committee for 1st class professorship of Tim Roberts, Durham, UK

2021 Committee member for Professorship, Université de Lyon, France

2021 Member of a jury for the selection of a lecturer for the University of Strasbourg

2021 External reviewer for a Professorship, University of Durham, UK

2021 External reviewer for STFC astronomy grants, UK

2021 President of Sujay Mate's PhD jury, IRAP, Toulouse, France

2021-25 Member of the Midi-Pyrenees Observatory council

2020 External jury member for Jakob Van Eijnden's PhD, Amsterdam, Netherlands

2020 Member of a jury to select a Professor for the Université Paris Didérot, France

2020 Reviewer for Floriane Cangemi's PhD, AIM, CEA, Saclay, France

2019 External member of a jury for a tenure position, McGill University, Montreal, Canada

2019 Examiner for Galahad Jogo's PhD, AIM, CEA, Saclay, France

2019 President of Mathias Péault's PhD jury, IRAP, Toulouse, France

2019 Reviewer for Francis Fortin's PhD, AIM, CEA, Saclay, France

2018 Member of an HCERES evaluation of AIM, CEA, Saclay, France

2018-... Member of the Service duties commission at the 'Obs Midi-Pyrénées, Toulouse, France

2018 Reviewer for Anu Kundu's thesis defence, Astronomical Obs. of Strasbourg, France

2018 President of the jury for Frédéric Pitout's HDR thesis defence, IRAP, France

2017 Reviewer for Aurélien Sourie's thesis defence, LUTh, France

2017-18 Chair of panel B2 for the XMM-Newton Time Allocation Committee

2017 Reviewer for Hannah Earnshaw's thesis defence, Durham University, UK

2017-18 Chair of panel 2 for the INTEGRAL Time Allocation Committee

2016 Examiner for Damien Turpin's thesis defence, IRAP, France

2016 Reviewer for Andreas Zech's HDR thesis defence, LUTh, France

2016 Member of the selection for two lecturers at University Paris VII, Paris, France

2016 Member of the committee to select Einstein Fellowship post-docs, Boston, USA

2016 Member of review panel for AHEAD proposals (Work packages 2 and 5)

2015-17 Member of the Time Allocation Committees for the sub mm telescope ALMA

2015 Reviewer for Karelle Siellez's thesis defence, Observatoire de Haute Provence, France

2014 Reviewer for Nicolas Renault-Tinacci's thesis defense, CEA Saclay, France

2013 Reviewer for Xian Hou's thesis defense, Bordeaux Gradignan, France

2013 Examiner for Romain Artigue's thesis defense, IRAP, Toulouse, France

2012 Member of the Time Allocation Committees for the X-ray telescope XMM-Newton

2013 Member of the assessment committee (AERES) of the laboratory SYRTE, Paris, France

2012 Member of the assessment committee (AERES) of the laboratory LuTH, Paris, France

2012 Reviewer for Anna Zajczyk's thesis defence, N. Copernicus Astronomical Center, Poland

2012 Reviewer for Grace Thomson's thesis defense, Southampton University, UK

2011-15 Elected member of the Conseil National des Astronomes et Physiciens (CNAP, council responsible for hiring French astronomers, their promotions and career assessment)

2011 Member of the Time Allocation Committees for the X-ray telescope XMM-Newton

2011 Member of the review panel for the X-ray telescope Chandra

2012 Member of the jury for the selection of a lecturer at the IRAP, Toulouse, France

2011 Member of selection committee for temporary lecturer for University Toulouse III, France

2010 Reviewer for Fraser Lewis' thesis defense at the Open University, England

2009-10 Member of selection committee for temporary lecturer for Université Toulouse III, France

2009-13 Appointed committee member, hiring physics lecturers/professors for the Université Toulouse III

2009 Member of the Time Allocation Committees for the X-ray telescope XMM-Newton
 2008 Member of the Time Allocation Committees for the X-ray telescope XMM-Newton
 2008-13 Member of the advisory board for radio telescope in Nançay, France
 2004-08 Commission member, hiring astrophysics lecturers/professors for University Toulouse III
 2003-.. Referee for the scientific journals, Astronomy & Astrophysics, the Astrophysical Journal, Monthly Notices of the Royal Astronomical Society, Nature and Science

- **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

2023 – present EAS, European Astronomical society
 2010 – present SF2A, French Astronomical society
 1991 – 2008 Institute of Physics, UK

- **AWARDS + GRANTS**

2021-2024 Coordinator of WP6 of the Horizon Europe ACME programme
 2026-2030 Participant in ANR Parmigiano
 2026-2030 Participant in ANR Denser
 2021-2024 Coordinator of the H2020 XMM2ATHENA programme (2000000€)
 2022-2027 Participant in ANR MBH_Waves
 2021-2025 Participant in ANR MORPHER
 2020-2024 Participant of H2020 AHEAD2 programme
 2019-2022 Prime d'Encadrement Doctoral et de Recherche (PEDR) Grade A (bonus for scientific excellence)
 2015-2018 Prime d'Encadrement Doctoral et de Recherche Grade A
 2011-2014 Prime d'Excellence Scientifique (PES), Grade A (bonus for scientific excellence)
 2010-.... PI of CNES grant to accompany XMM-Newton activities in Toulouse (~90000€/year)
 2007-2010 Prime d'Encadrement Doctoral et de Recherche

- **PUBLICATIONS**

- 152 refereed papers of which 26 as 1st author, 3 as corresponding author

See :

[https://ui.adsabs.harvard.edu/search/fq=%7B!type%3Daqp%20v%3D%24fq_database%7D&fq=%7B!type%3Daqp%20v%3D%24fq_property%7D&fq_database=database%3A%20astronomy&fq_property=property%3A%20refereed&q=author%3A\(%22webb%2C%20natalie%22\)&sort=date%20desc%2C%20bibcode%20desc&p_=0](https://ui.adsabs.harvard.edu/search/fq=%7B!type%3Daqp%20v%3D%24fq_database%7D&fq=%7B!type%3Daqp%20v%3D%24fq_property%7D&fq_database=database%3A%20astronomy&fq_property=property%3A%20refereed&q=author%3A(%22webb%2C%20natalie%22)&sort=date%20desc%2C%20bibcode%20desc&p_=0)

- 93 Gurpide, A., Godet, O., Vasilopoulos, G., Webb, N., Olive, J.-F., 2021, *Discovery of superorbital periods and evolutionary cycles in the ultraluminous X-ray sources Holmberg II X-1 and NGC 5204 X-1* A&A, accepted
- 92 Fürst, F. et al (inc. N. A. Webb), 2021, *Long-term pulse period evolution of the ultra-luminous X-ray pulsar NGC 7793 P13*, A&A, accepted
- 91 Gurpide, A., Godet, O., Koliopanos, F., Webb, N., Olive, J.-F., 2021, *Long-term X-ray spectral evolution of Ultraluminous X-ray sources: implications on the accretion flow geometry and the nature of the accretor*, A&A, in press
- 90 Quintin, E., Webb, N.-A., Gurpide, A., Bachetti, M., Fürst, F., 2021., *A new candidate pulsating ULX in NGC 7793.*, Monthly Notices of the Royal Astronomical Society, doi:10.1093/mnras/stab814
- 89 Möller, A. and 35 colleagues (inc. N. A. Webb), 2021, *FINK, a new generation of broker for the LSST community*, Monthly Notices of the Royal Astronomical Society 501, 3272–3288
- 88 Echiburu, C.-S., Guillot, S., Zhao, Y., Heinke, C.-O., Özel, F., Webb, N.-A., 2020. Spectral analysis of the quiescent low-mass X-ray binary in the globular cluster M30, MNRAS, 495, 4508–4517
- 87 Koliopanos, F., Peault, M., Vasilopoulos, G., Webb, N. 2020. *The chemical composition of the accretion disk and donor star in Ultra Compact X-ray Binaries: A comprehensive X-ray analysis*, MNRAS, 501, 548
- 86 Koliopanos, F., Vasilopoulos, G., Guillot, S., Webb, N. 2020. *Disappearance of the Fe K α emission line in Ultra Compact X-ray Binaries 4U 1543-624 and Swift J1756.9-2508*, MNRAS, 500, 5603
- 85 Traulsen, I. and 14 colleagues (inc: N. A. Webb.), 2020., *The XMM-Newton serendipitous survey. X. The second source catalogue from overlapping XMM-Newton observations and its long-term variable content*, Astronomy and Astrophysics, 641. doi:10.1051/0004-6361/202037706
- 84 Kara, E., and 16 colleagues 2020. *Discovery of a soft X-ray lag in the ultraluminous X-ray source NGC 1313 X-1*, Monthly Notices of the Royal Astronomical Society 491, 5172.
- 83 Lin, D., and 8 colleagues 2020. *Multiwavelength Follow-up of the Hyperluminous Intermediate-mass Black Hole Candidate 3XMM J215022.4-055108*, ApJ, 892, 25
- 82 Webb, N. A., Coriat, M., Traulsen, I., Ballet, J., Motch, C., Carrera, F., Authier, J., Ceballos, M. T., Chuard, D., Garcia, T., Kolehmainen, M., Koliopanos, F., Maggi, P., Zakardjian, A., Freyberg, M., Michel, L., Page, M., Watson, M. G., *The XMM-Newton serendipitous survey IX. The fourth XMM-Newton serendipitous source catalogue* 2020, A&A, 641, 136
- 81 Pastor Marazuela, I., Webb, N. A., Wojtowicz, D., van Leeuwen, J., *The EXOD search for faint transients in XMM-Newton observations: Method and Discovery of four X-ray Bursters and one Magnetar*, 2020, A&A, 640, 124
- 80 Guillot, S., Kerr, M., Ray, P. S., Bogdanov, S., Ransom, S., Deneva, J. S., Arzoumanian, Z., Bult, P., Chakrabarty, D., Gendreau, K., Ho, W. C. G., Jaisawal, G. K., Malacaria, C., Miller, M. C., Strohmayer, T. C., Wolff, T., Webb, N. A., Guillemot, L., Cognard, I., Theureau, G., *Nicer X-Ray Observations Of Seven Nearby Rotation-Powered Millisecond Pulsars*, 2019, ApJ, 887, 27
- 79 Webb, N. A. *Automatic detection of tidal disruption events and other long-duration transients in XMM-Newton data*. 2019, Astronomische Nachrichten 340, 262.
- 78 Earnshaw, H. P., Grefenstette, B. W., Brightman, M., Walton, D. J., Barret, D., Fürst, F., Harrison, F. A., Heida, M., Pike, S. N., Stern, D., Webb, N. A. *A Broadband Look at the Old and New ULXs of NGC 6946*. 2019, ApJ, 881, 38.
- 77 Bachetti, M., Maccarone, T. J., Brightman, M., Brumback, M. C., Fürst, F., Harrison, F. A., Heida, M., Israel, G. L., Middleton, M. J., Tomsick, J. A., Webb, N. A., Walton, D. J. *All at once: transient pulsations, spin down and a glitch from the Pulsating Ultraluminous X-ray Source M82 X-2* 2020, ApJ, 891, 44
- 76 Baillot d'Etivaux, N., Guillot, S., Margueron, J., Webb, N. A., Catelan, M., Reisenegger, A. *New*

constraints on the nuclear equation of state from the thermal emission of neutron stars in quiescent low-mass X-ray binaries. 2019, *ApJ*, 887, 48

75 Koliopanos, F., Ciambur, B.C., Graham, A.W., Webb, N.A., Coriat, M., Mutlu-Pakdil, B., Davis, B.L., Godet, O., Barret, D., and Seigar, M.S.: *Searching for intermediate-mass black holes in galaxies with low-luminosity AGN: a multiple-method approach* 2017, *A&A*, 601, A20

74 Webb, N.A., Leahy, D., Guillot, S., Baillot d'Etivaux, N., Barret, D., Guillemot, L., Margueron, J. Miller, M.C., *Thermal X-ray emission identified from the millisecond pulsar PSR J1909-3744*, 2019, *A&A*, 627, 141

73 Traulsen, I., et al. *The XMM-Newton serendipitous survey. VIII. The first XMM-Newton serendipitous source catalogue from overlapping observations*, 2019 *A&A*, 624, A77.

72 Fürst, F., et al. , *A tale of two periods: determination of the orbital ephemeris of the super-Eddington pulsar NGC 7793 P13*, 2018, *A&A*, 616, A186.

71 Webb, N.A., Schwöpe, A., Zolotukhin, I., Lin, D., Rosen, S.R., *Two new magnetic cataclysmic variables discovered in the 3XMM catalogue*, 2018, *A&A*, 615, 133

70 Lin, D., Strader, J., Carrasco, E.R., Godet, O., Grupe, D., Webb, N.A., Barret, D., Irwin, J.A., *Multiwavelength Follow-up Observations of the Tidal Disruption Event Candidate 2XMMi J184725.1-631724*, 2018, *MNRAS*, 474, 3000

69 Koliopanos, F., Vasilopoulos, G., Godet, O., Bachetti, M., Webb, N.A., Barret, D., *ULX spectra revisited: Accreting, highly magnetized neutron stars as the engines of ultraluminous X-ray sources*, 2017, *A&A*, 608, 47

68 Lin, D., Godet, O., Ho, L.C., Barret, D., Webb, N.A., Irwin, J.A., *Large decay of X-ray flux in 2XMM J123103.2+110648: evidence for a tidal disruption event*, 2017, *MNRAS*, 468, 783

67 Webb, N.A., Guerou, A., Ciambur, B., et al., *Understanding the host galaxy of the intermediate mass black hole candidate ESO 243-49 HLX-1* 2017, *A&A*, 602, 103

66 Lin, D., Carrasco, E.R., Webb, N.A., et al., *Discovery of the candidate off-nuclear ultra-soft hyperluminous X-ray source 3XMM J141711.1+522541*, 2016, *ApJ*, 821, 25

65 Zolotukhin, I., Bachetti, M., Sartore, N., Chilingarian, I., Webb, N. A., *The slowest spinning X-ray pulsar in an extragalactic globular cluster*, 2017, *ApJ*, 839, 125

64 Rosen, S. R., Webb, N. A., Watson, M. G., et al. (36 auteurs supplémentaires), *The XMM-Newton serendipitous survey. VII. The third XMM-Newton serendipitous source catalogue*, 2016, **ApJ**, 590, 1 (corresponding author)

63 Musaeva, A., Koribalski, B. S., Farrell, S. A., Sadler, E. M., Servillat, M., Jurek, R., Lenc, E., Starling, R. L. C., Webb, N. A., Godet, O., Combes, F., Barret, D., *H I study of the environment around ESO 243-49, the host galaxy of an intermediate-mass black hole*, 2015, *MNRAS*, 447, 1951

62 Zolotukhin, I., Webb, N. A., Godet, O., Bachetti, M., Barret, D., *A Search for Hyperluminous X-Ray Sources in the XMM-Newton Source Catalog*, 2016, *ApJ*, 817, 88

61 Lin, D., Maksym, P.W., Irwin, J.A., et al. *An Ultrasoft X-Ray Flare from 3XMM J152130.7+074916: A Tidal Disruption Event Candidate*, 2015, *ApJ*, 811, 43

60 Corral, A., Georgantopoulos, I., Watson, M. G., Rosen, S. R., Page, K. L., Webb, N. A., *XMMFITS: The XMM-Newton spectral-fit database*, 2015, *A&A*, 576, 61

59 Cseh, D., Webb, N. A., Godet, O., Barret, D., Corbel, S., Coriat, M., Falcke, H., Farrell, S. A., Körding, E., Lenc, E., Wrobel, J. M., *On the radio properties of the intermediate-mass black hole candidate ESO 243-49 HLX*, 2015, *MNRAS*, 446, 3268

58 Walton, D. J., Harrison, F. A., Bachetti, M., et al., *NuSTAR and XMM-Newton Observations of the Extreme Ultraluminous X-Ray Source NGC 5907 ULX1: A Vanishing Act*, 2015, *ApJ*, 799, 122

57 Rana, V., Harrison, F. A., Bachetti, M., et al., *The Broadband XMM-Newton and NuSTAR X-Ray Spectra of Two Ultraluminous X-Ray Sources in the Galaxy IC 342*, 2015, *ApJ*, 799, 121

56 Bachetti, M., Harrison, F. A., Walton, D. J., et al., *An ultraluminous X-ray source powered by an accreting neutron star*, 2014, *Nature*, 514, 202

55 Heinke, C. O., Cohn, H. N., Luggner, P. M., Webb, N. A., Ho, W. C. G., Anderson, J., Campana, S., Bogdanov, S., Haggard, D., Cool, A. M.; Grindlay, J. E., *Improved mass and radius constraints for quiescent neutron stars in ω Cen and NGC 6397*, 2014, *MNRAS*, 444, 443

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