

Papers and teams for the press release *Hubble* observes source of gravitational waves for the first time

The study called “The emergence of a lanthanide-rich kilonova following the merger of two neutron stars” was performed by N. R. Tanvir (University of Leicester, UK), A. J. Levan (University of Warwick, UK), C. González-Fernández (University of Cambridge, UK), O. Korobkin (Los Alamos National Laboratory, USA), I. Mandel (University of Birmingham, UK), S. Rosswog (Stockholm University, Sweden), J. Hjorth (University of Copenhagen, Denmark), P. D’Avanzo (INAF - Osservatorio Astronomico di Brera, Italy), A. S. Fruchter (Space Telescope Science Institute, USA), C. L. Fryer (Los Alamos National Laboratory, USA), T. Kangas (Space Telescope Science Institute, USA), B. Milvang-Jensen (University of Copenhagen, Denmark), S. Rosetti (University of Leicester, UK), D. Steeghs (University of Warwick, UK), R. T. Wollaeger (Los Alamos National Laboratory, USA), Z. Cano (Instituto de Astrofísica de Andalucía (IAA-CSIC), Spain), C. M. Copperwheat (Liverpool John Moores University, UK), S. Covino (INAF - Osservatorio Astronomico di Brera, Italy), V. D’Elia (INAF - Osservatorio Astronomico di Roma, Italy; Space Science Data Center, Italy), A. de Ugarte Postigo (Instituto de Astrofísica de Andalucía (IAA-CSIC), Spain; University of Copenhagen, Denmark), P. A. Evans (University of Leicester, UK), W. P. Even (Los Alamos National Laboratory, USA), S. Fairhurst (Cardiff University, UK), R. Figuera Jaimes (University of St Andrews, UK), C. J. Fontes (Los Alamos National Laboratory, USA), Y. I. Fujii (University of Copenhagen, Denmark; Nagoya University, Japan), J. P. U. Fynbo (University of Copenhagen, Denmark), B. P. Gompertz (University of Warwick, UK), J. Greiner (Max-Planck-Institut für extraterrestrische Physik, Germany), G. Hodosan (Instituto de Astrofísica de Andalucía (IAA-CSIC), Spain), M. J. Irwin (University of Cambridge, UK), P. Jakobsson (University of Iceland, Iceland), U. G. Jørgensen (University of Copenhagen, Denmark), D. A. Kann (Instituto de Astrofísica de Andalucía (IAA-CSIC), Spain), J. D. Lyman (University of Warwick, UK), D. Malesani (University of Copenhagen, Denmark), R. G. McMahon (University of Cambridge, UK), A. Melandri (INAF - Osservatorio Astronomico di Brera, Italy), P.T. O’Brien (University of Leicester, UK), J. P. Osborne (University of Leicester, UK), E. Palazzi (INAF - Istituto di Astrofisica Spaziale e Fisica Cosmica), D. A. Perley (Liverpool John Moores University, UK), E. Pian (INAF - Institute of Space Astrophysics and Cosmic Physics, Italy), S. Piranomonte (INAF - Osservatorio Astronomico di Roma, Italy), M. Rabus (INAF - Institute of Space Astrophysics and Cosmic Physics, Italy), E. Rol (Monash University, Australia), A. Rowlinson (University of Amsterdam, the Netherlands; the Netherlands Institute for Radio Astronomy, the Netherlands), S. Schulze (Weizmann Institute of Science, Israel), P. Sutton (Cardiff University, UK), C.C. Thöne (Instituto de Astrofísica de Andalucía (IAA-CSIC), Spain), K. Ulaczyk (University of Warwick, UK), D. Watson (University of Copenhagen, Denmark), K. Wiersema (University of Leicester, UK), & R.A.M.J. Wijers (University of Amsterdam, the Netherlands).

The study called “The environment of the binary neutron star merger GW170817” was performed by A. J. Levan (University of Warwick, UK), J. D. Lyman (University of Warwick, UK), N. R. Tanvir (University of Leicester, UK), J. Hjorth (University of Copenhagen, Denmark), I. Mandel (University of Birmingham, UK), E.R. Stanway (University of Warwick, UK), D. Steeghs (University of Warwick, UK), A. S. Fruchter (Space Telescope Science Institute, USA), E. Troja (University of Maryland, USA; Goddard Space Flight Center, USA), S. L. Schröder (University of Copenhagen, Denmark), K. Wiersema (University of Leicester, UK), S. H. Bruun (University of Copenhagen, Denmark), Z. Cano (Instituto de Astrofísica de Andalucía (IAA-CSIC), Spain), S. B. Cenko (University of Maryland, USA; NASA Goddard Space Flight Center, USA), A. de Ugarte Postigo (Instituto de Astrofísica de Andalucía (IAA-CSIC), Spain; University of Copenhagen, Denmark), P. A. Evans (University of Leicester, UK), S. Fairhurst (Cardiff University, UK), O. D. Fox (Space Telescope Science Institute, USA), J. P. U. Fynbo (University of Copenhagen, Denmark), B. Gompertz (Space Telescope Science Institute, USA), J. Greiner (Max-Planck-Institut für extraterrestrische Physik, Germany), M. Im (University of Iceland, Iceland), L. Izzo (Instituto de Astrofísica de Andalucía (IAA-CSIC), Spain), P. Jakobsson (University of Iceland, Iceland), T. Kangas (Space Telescope Science Institute, USA), H. G. Khandrika (Space Telescope Science Institute, USA), A. Y. Lien (University of Maryland, USA; NASA Goddard Space Flight Center, USA), D. Malesani (University of Copenhagen, Denmark), P. O’Brien (University of Leicester, UK), J. P. Osborne (University of Leicester, UK), E. Palazzi (INAF - Institute of Space Astrophysics and Cosmic Physics, Italy), E. Pian (INAF - Institute of Space Astrophysics and Cosmic Physics, Italy), D. A. Perley (Liverpool John Moores University, UK), S.

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The study called “Discovery of the X-ray counterpart to the gravitational wave event GW170817” was performed by E. Troja (University of Maryland, NASA Goddard Space Flight Center), L. Piro (INAF, Istituto di Astrofisica e Planetologia Spaziali), H. van Eerten (University of Bath), R. T. Wollaeger (Los Alamos National Laboratory), M. Im (Seoul National University), O. D. Fox (Space Telescope Science Institute), N. R. Butler (Arizona State University), S. B. Cenko (NASA Goddard Space Flight Center, University of Maryland), T. Sakamoto (Aoyama Gakuin University), C. L. Fryer (Los Alamos National Laboratory), R. Ricci (INAF-Istituto di Radioastronomia), A. Lien (NASA Goddard Space Flight Center, University of Maryland), R. E. Ryan Jr. (Space Telescope Science Institute), O. Korobkin (Los Alamos National Laboratory), S.-K. Lee (Space Telescope Science Institute), J. M. Burgess (Max-Planck-Institut für extraterrestrische Physik), W. H. Lee (Universidad Nacional Autónoma de México), A. M. Watson (Universidad Nacional Autónoma de México), C. Choi (Seoul National University), S. Covino (INAF/Brera Astronomical Observatory), P. D’Avanzo (INAF/Brera Astronomical Observatory), C. J. Fontes (Los Alamos National Laboratory), J. B. González (Inst. de Astrofísica de Canarias, Universidad de La Laguna), H. G. Khandrika (Space Telescope Science Institute), J. Kim (Seoul National University), S.-L. Kim (Korea Astronomy and Space Science Institute), C.-U. Lee (Korea Astronomy and Space Science Institute), H. M. Lee (Seoul National University), A. Kutyrev (University of Maryland, NASA Goddard Space Flight Center), G. Lim (Seoul National University), R. Sánchez-Ramírez (INAF, Istituto di Astrofisica e Planetologia Spaziali), S. Veilleux (University of Maryland), M. H. Wieringa (CSIRO Astronomy and Space Science), Y. Yoon (Seoul National University)

The study called “Illuminating Gravitational Waves: A Concordant Picture of Photons from a Neutron Star Merger” was performed by M. M. Kalila (California Institute of Technology, USA), E. Nakar (The Raymond and Beverly Sackler School of Physics and Astronomy, USA), L. P. Singer (NASA Goddard Space Flight Center, USA; University of Maryland, USA), D. L. Kaplan (University of Wisconsin, USA), D. O. Cook (California Institute of Technology, USA), A. Van Sistine (University of Wisconsin, USA), R. M. Lau (California Institute of Technology, USA), C. Fremling (California Institute of Technology, USA), O. Gottlieb (The Raymond and Beverly Sackler School of Physics and Astronomy, USA), J. E. Jencson (California Institute of Technology, USA), S. M. Adams (California Institute of Technology, USA), U. Feindt (Stockholm University, Sweden), K. Hotokezaka (Simons Foundation, USA), S. Ghosh (University of Wisconsin, USA), D. A. Perley (Liverpool John Moores University, UK), P.-C. Yu (National Central University, Taiwan), T. Piran (The Hebrew University of Jerusalem, Israel), J. R. Allison (The University of Sydney, Australia; ARC Centre of Excellence, Australia), G. C. Anupama (Indian Institute of Astrophysics, India), A. Balasubramanian (Indian Institute of Science Education and Research, India), K. W. Bannister (Commonwealth Scientific and Industrial Research Organisation, Australia), J. Bally (University of Colorado, USA), J. Barnes (Columbia University, USA), S. Barway (South African Astronomical Observatory, South Africa), E. Bellm (University of Washington, USA), V. Bhalerao (Indian Institute of Technology Bombay, India), D. Bhattacharya (Inter-University Centre for Astronomy and Astrophysics, India), N. Blagorodnova (California Institute of Technology, USA), J. S. Bloom (University of California, USA; Lawrence Berkeley National Laboratory, USA), P. R. Brady (University of Wisconsin, USA), C. Canella (California Institute of Technology, USA), D. Chatterjee (University of Wisconsin, USA), S. B. Cenko (NASA Goddard Space Flight Center, USA; University of Maryland, USA), B. E. Cobb (George Washington University, USA), C. Copperwheat (Liverpool John Moores University, UK), A. Corsi (Texas Tech University, USA), K. De (California Institute of Technology, USA), D. Dobie (The University of Sydney, Australia; ARC Centre of excellence, Australia; Commonwealth Scientific and Industrial Research Organisation, Australia), S. W. K. Emery (University College London, UK), P. A. Evans (University of Leicester, UK), O. D. Fox (Space Telescope Science Institute, USA), D. A. Frail (National Radio Astronomy Observatory, USA), C. Frohmaier (University of Southampton, UK; University of Portsmouth, UK), A. Goobar (Stockholm University, Sweden), G. Hallinan (California Institute of Technology, USA), F. Harrison (California Institute of Technology, USA), G. Helou (California Institute of Technology, USA), T. Hinderer (Radboud University, The Netherlands), A. Y. Q. Ho (California Institute of Technology, USA), A. Horesh (University of Maryland, USA), W.-H. IP (National Central University, Taiwan), R. Itoh (Tokyo

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The study called “The Distance to NGC 4993 — The host galaxy of the gravitational wave event GW17017” was performed by J. Hjorth (University of Copenhagen, Denmark), A. J. Levan (University of Warwick, UK), N. R. Tanvir (University of Leicester, UK), J. D. Lyman (University of Warwick, UK), R. Wojtak (University of Copenhagen, Denmark), S. L. Schröder (University of Copenhagen, Denmark), I. Mandel (University of Birmingham, UK), C. Gall (University of Copenhagen, Denmark), & S. H. Brunn (University of Copenhagen, Denmark).