

# Papers and Teams for the Press Release: ESO Telescopes Observe First Light from Gravitational Wave Source



- Paper 1: “Spectroscopic identification of r-process nucleosynthesis in a double neutron star merger”, by E. Pian et al. in *Nature*.
- Paper 2: “The emergence of a lanthanide-rich kilonova following the merger of two neutron stars”, by N. R. Tanvir et al. in *ApJL*
- Paper 3: “The electromagnetic counterpart to a gravitational wave source unveils a kilonova”, by S. J. Smartt et al. in *Nature*
- Paper 4: “The unpolarized macronova associated with the gravitational wave event GW170817”, by S. Covino et al. in *Nature*
- Paper 5: “The Distance to NGC 4993 — The host galaxy of the gravitational wave event GW17017”, by J. Hjorth et al. in *ApJL*
- Paper 6: “The environment of the binary neutron star merger GW170817”, by A. J. Levan et al. in *ApJL*

## **Paper 1: “Spectroscopic identification of r-process nucleosynthesis in a double neutron star merger”, by E. Pian et al.:**

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**Paper 2: “The emergence of a lanthanide-rich kilonova following the merger of two neutron stars”, by N. R. Tanvir et al.:**

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**Paper 3: “The electromagnetic counterpart to a gravitational wave source unveils a kilonova”, by S. J. Smartt et al.:**

S. J. Smartt (Queen’s University Belfast, UK), T.-W. Chen (Max-Planck-Institut für extraterrestrische Physik, Germany), A. Jerkstrand (Max-Planck Institut für Astrophysik, Germany), M. Coughlin (LIGO, USA), E. Kankare (Queen’s University Belfast, UK), S. A. Sim (Queen’s University Belfast, UK), M. Fraser (University College Dublin, Ireland), C. Inserra (University of Southampton, UK), K. Maguire (Queen’s University Belfast, UK), K. C. Chambers (University of Hawaii, USA), M. E. Huber (University of Hawaii, USA), T. Kruhler (Max-Planck-Institut für extraterrestrische Physik, Germany), G. Leloudas (University of Copenhagen, Denmark), M. Magee (Queen’s University Belfast, UK), L. J. Shingles (Queen’s University Belfast, UK), K. W. Smith (Queen’s University Belfast, UK), D. R. Young (Queen’s University Belfast, UK), J. Tonry (University of Hawaii, USA), R. Kotak (Queen’s University Belfast, UK), A. Gal-Yam (Weizmann Institute of Science, Israel), J. D. Lyman (University of Warwick, UK), D. S. Homan (University of Edinburgh, UK), C. Agliozzo (Universidad Andres Bello, Chile; University of Chile (MAS), Chile), J. P. Anderson (European Southern Observatory, Chile), C. R. Angus (University of Southampton, UK), C. Ashall (Liverpool John Moores University, UK), C. Barbarino (Stockholm University, Sweden), F. E. Bauer (University of Chile, Chile; Pontificia Universidad Católica de Chile, Chile; Space Science Institute, USA), M. Berton (Università degli Studi di Padova, Italy; INAF - Osservatorio Astronomico di Brera, Italy), M. T. Botticella (INAF - Osservatorio astronomico di Capodimonte, Italy), M. Bulla (Stockholm University, Sweden), J. Bulger (University of Hawaii, USA), G. Cannizzaro (Netherlands Institute for Space Research, the Netherlands), Z. Cano (Instituto de Astrofísica de Andalucía (IAA-CSIC), Spain), R. Cartier (University of Southampton, UK), A. Cikota (European Southern Observatory, Germany), P. Clark (Queen’s University Belfast, UK), A. De Cia (European Southern Observatory, Germany), M. Della Valle (INAF - Osservatorio astronomico di Capodimonte, Italy; International Centre for Relativistic Astrophysics Network (ICRA Net), Italy), L. Dessart (Universidad de Chile (Unidad Mixta Internacional Franco-Chilena de Astronomía (CNRS)), Chile), L. Denneau (University of Hawaii, USA), G. Dimitriadis (University of Southampton, UK), N. Elias-Rosa (Istituto Nazionale di Astrofisica, Italy), R. E. Firth (University of Southampton, UK), H. Flewelling (University of Hawaii, USA), A. Flors (Max-Planck-Institut für Astrophysik, Germany; European Southern Observatory, Germany; Technische Universität München, Germany), A. Franckowiak (Deutsches Elektronen-Synchrotron, Germany), C. Frohmaier (University of Portsmouth, UK), L. Galbany (University of Pittsburgh, USA), S. Gonzalez-Gaitan (Universidade de Lisboa, Portugal), J. Greiner (Max-Planck-Institut für extraterrestrische Physik, Germany), M. Gromadzki (University of Warsaw, Poland), A. Nicuesa Guelbenzu (Thüringer Landessternwarte Tautenburg, Germany), C. P. Gutierrez (University of Southampton, UK), A. Hamanowicz (Instituto de Astrofísica de Andalucía, Spain; European Southern Observatory, Germany), L. Hanlon (University College Dublin, Ireland), J. Harmanen (University of Turku, Finland), K. E. Heintz (University of Copenhagen, Denmark; University of Iceland, Iceland), A. Heinze (University of Hawaii, USA), M.-S. Hernandez (Universidad de Valparaíso, Chile), S. T. Hodgkin (University of Cambridge, UK), I. M. Hook (Lancaster University, UK), L. Izzo (Instituto de Astrofísica de Andalucía (IAA-CSIC), Spain), P. A. James (Liverpool John Moores University, UK), P. G. Jonker (Netherlands Institute for Space Research, The Netherlands; Radboud University, The Netherlands), W. E. Kerzendorf (European Southern Observatory, Germany), S. Klose (Thüringer Landessternwarte Tautenburg, Germany); Z. Kostrzewa-Rutkowska (Netherlands Institute for Space Research, The Netherlands; Radboud University, The Netherlands), M. Kowalski (Deutsches Elektronen Synchrotron DESY, Germany; Humboldt-Universität zu Berlin, Germany), M. Kromer (Zentrum für Astronomie der Universität Heidelberg, Germany; Heidelberger Institut für Theoretische Studien, Germany), H. Kuncarayakti (University of Turku, Finland; Finnish Centre for Astronomy with ESO (FINCA), Finland), A. Lawrence (University of Edinburgh, UK), T. Lowe (University of Hawaii, USA), E. A. Magnier (University of Hawaii, USA), I. Manulis (Weizmann Institute of Science, Israel), A. Martin-Carrillo (University College Dublin, Ireland), S. Mattila (University of Turku, Finland), O. McBrien (Queen’s University Belfast, United Kingdom), A. Müller (Max Planck Institute for Astronomy, Germany), J. Nordin (Humboldt-Universität zu Berlin, Germany), D. O’Neill (Queen’s University Belfast, UK), F. Onori (Netherlands Institute for Space Research, The Netherlands), J. T. Palmerio (Sorbonne Universités,

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**Paper 4: “The unpolarized macronova associated with the gravitational wave event GW170817”, by S. Covino et al.:**

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**Paper 5: “The Distance to NGC 4993 — The host galaxy of the gravitational wave event GW17017”, by J. Hjorth et al.:**

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**Paper 6: “The environment of the binary neutron star merger GW170817”, by A. J. Levan:**

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