JAMES M. LATTIMER — CURRICULUM VITAE

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Birth: Marion, Indiana, April 12, 1950

EDUCATION:

1972 B.S., University of Notre Dame, Notre Dame IN, Physics
1976 Ph.D., University of Texas at Austin, Austin TX, Astronomy

ACADEMIC POSITIONS:

1976–1976 Research Associate, University of Chicago
1976–1979 Research Associate, University of Illinois at Urbana-Champaign
1979–1983 Assistant Professor, State University of New York at Stony Brook
1983–1988 Associate Professor, State University of New York at Stony Brook
1988–2013 Professor, State University of New York at Stony Brook
2013– Distinguished Professor, State University of New York at Stony Brook
1985–1986 Visiting Professor, NORDITA, Copenhagen, Denmark
2000 Visiting Professor, University of Basel, Switzerland
2007 Visiting Professor, Max-Planck Institute, Golm, Germany
2014 Visiting Professor, Yukawa Institute, Kyoto, Japan

- Director of Graduate Studies, Dept. of Earth & Space Sciences 1987–1990
- Associate Chairman, Dept. of Earth & Space Sciences, 1989–1993, 1996–1997
- Chairman, Dept. of Earth & Space Sciences, 1993–1996
- Associate Chairman, Dept. of Physics & Astronomy, 1997–1998

SOCIETIES: American Astronomical Society; American Geophysical Union; International Astronomical Union; American Physical Society, Astrophysics Division

HONORS AND AWARDS:

1974–1976 Benfield Fellowship
1982 Alfred P. Sloan Foundation Fellow
1985 Ernest F. Fullam Award
1999 John Simon Guggenheim Fellow
2001 Fellow, American Physical Society
2008–2010 Glidden Visiting Professorship, Ohio University
2012 Kingsley Visitor, Caltech
2015 Hans A. Bethe Prize, American Physical Society
2023 Fellow, American Astronomical Society

RESEARCH FIELDS: Dense matter equation of state, supernovae, neutron stars, neutrino astrophysics, compact object mergers and the r-process, grain formation in novae and supernovae, geochemistry of meteorites and the early solar nebula

JAMES M. LATTIMER — PUBLICATIONS

REFEREED ARTICLES

ISI: 123 refereed publications, 28,178 citations, 229.1 cites/publication, 575.1 cites/yr

1. 1974 Black Hole – Neutron Star Collisions, **J. M. Lattimer** & D. N. Schramm, *Astrophys. J. Lett.* **192,** L145–147.
2. 1976 The Origin of Deuterium, R. I. Epstein, **J. M. Lattimer** & D. N. Schramm, *Nature* **263,** 198–202.
3. 1976 The Tidal Disruption of Neutron Stars by Black Holes in Close Binaries, **J .M. Lattimer** & D. N. Schramm, *Astrophys. J.* **210,** 549–567.
4. 1977 The Decompression of Cold Neutron Star Matter, **J. M. Lattimer**, F. D. Mackie, D. G. Ravenhall & D. N. Schramm, *Astrophys. J.* **213**, 225–233.
5. 1977 Supernovae, Grains and the Formation of the Solar System, **J. M. Lattimer**, D. N. Schramm and L. Grossman) *Nature* **269,** 116–118.
6. 1977 Are Supernovae Sources of Presolar Grains?. S. W. Falk, **J. M. Lattimer** & S. H. Margolis, *Nature* **270,** 700–701.
7. 1978 Condensation in Supernova Ejecta and Isotopic Anomalies in Meteorites, **J. M. Lattimer**, D. N. Schramm & L. Grossman, *Astrophys. J.* **219,** 230–249.
8. 1978 Neutron Star Matter at High Densities and Temperatures. I-Bulk Properties of Nuclear Matter, **J. M. Lattimer** & D. G. Ravenhall, *Astrophys. J.* **223,** 314–323.
9. 1978 Chemical Condensation Sequences in Supernova Ejecta, **J. M. Lattimer** & L. Grossman, *The Moon and the Planets* **19,** 169–184.
10. 1978 Hot Dense Matter and Stellar Collapse, D. Q. Lamb, **J. M. Lattimer**, C. J. Pethick and D. G. Ravenhall, *Phys. Rev. Lett.* **41,** 1623–1626.
11. 1979 Nuclear Forces, Partition Functions and Dissociation in Stellar Collapse, T. J. Mazurek, **J. M. Lattimer** & G. E. Brown, *Astrophys. J.* **229,** 713–727.
12. 1979 Equation of State in the Gravitational Collapse of Stars, H. A. Bethe, G. E. Brown, J. Applegate & **J. M. Lattimer**, *Nucl. Phys.* **A324,** 487–533.
13. 1979 Silicon in Carbonacious Chondrite Metal: Relic of High-Temperature Condensation. E. Olson, L. Grossman & **J. M. Lattimer**, *Science* **206,** 449–451.
14. 1981 Physical Properties of Hot Dense Matter: The Bulk Equilibrium Approximation, D. Q. Lamb, **J. M. Lattimer**, C. J., Pethick, and D. G. Ravenhall, *Nucl. Phys.* **A360,** 459–482.
15. 1981 Leptonic Overturn and Shocks in Collapsing Stellar Cores, **J. M. Lattimer** & T. J. Mazurek, *Astrophys. J.* **246,** 955–965.
16. 1981 Stellar Core Collapse: I. Infall Epoch, K. A. Van Riper & **J. M. Lattimer**, *Astrophys. J.* **249,** 270–289.
17. 1981 Deleptonization and Heating of Proto-Neutron Stars, A. Burrows, T. J. Mazurek & **J. M. Lattimer**, *Astrophys. J.* **251,** 325–336.
18. 1983 The Effect of Trapped Lepton Number and Entropy on the Outcome of Stellar Collapse, A. Burrows & **J. M. Lattimer**, *Astrophys. J.* **270**, 735–739.

19. 1983 Nuclear Interface Energy at Finite Temperatures, D. G. Ravenhall, C. J. Pethick & **J. M. Lattimer**, *Nucl. Phys.* **A407**, 571–591.
20. 1983 Effect of Nuclear Curvature Energy on the Transition between Nuclei and Bubbles in Warm Dense Matter, C. J. Pethick, D. G. Ravenhall & **J. M. Lattimer**, *Phys. Lett.* **128B**, 137–140.
21. 1983 Phase Transitions in Cold and Warm Dense Matter, D. Q. Lamb, **J. M. Lattimer**, C. J. Pethick & D. G. Ravenhall, *Nucl. Phys.* **A411**, 449–473.
22. 1983 Properties of Warm Dense Matter at Low Entropies, **J. M. Lattimer**, C. J. Pethick and D. G. Ravenhall, *Nucl. Phys.* **A414**, 517–528.
23. 1984 On the Accuracy of the Single Nucleus Approximation in the Equation of State of Hot Dense Matter, A. Burrows & **J. M. Lattimer**, *Astrophys. J.* **285**, 294–303.
24. 1985 Physical Properties of Hot, Dense Matter: The General Case, **J. M. Lattimer**, C. J. Pethick, D. G. Ravenhall & D. Q. Lamb, *Nucl. Phys.* **A432**, 646–742.
25. 1985 Type II Supernova Energetics, **J. M. Lattimer**, A. Burrows & A. Yahil, *Astrophys. J.* **288**, 644–652.
26. 1985 Surface and Curvature Properties of Neutron-Rich Nuclei, K. Kolehmainen, **J. M. Lattimer**, M. Prakash & J. R. Treiner, *Nucl. Phys.* **A439**, 535–65.
27. 1985 On the Prompt Mechanism of Type II Supernovae, A. Burrows & **J. M. Lattimer**, *Astrophys. J. Lett.* **299**, L19–22.
28. 1986 The Birth of Neutron Stars, A. Burrows & **J. M. Lattimer**, *Astrophys. J.* **307**, 178–196.
29. 1987 Neutrinos From SN 1987A, A. Burrows & **J. M. Lattimer**, *Astrophys. J. Lett.* **318**, L63–68.
30. 1988 Convection, Type II Supernovae, and the Early Evolution of Neutron Stars, A. Burrows & **J. M. Lattimer**, *Phys. Rep.* **163**, 51–62.
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37. 1991 Direct Urca Process in Neutron Stars, **J. M. Lattimer**, M. Prakash, C. J. Pethick, and P. Haensel, *Phys. Rev. Lett.* **66**, 2701–2704.

38. 1991 A Generalized Equation of State for Hot, Dense Matter, **J. M. Lattimer** & F. D. Swesty, *Nucl. Phys.* **A535**, 331–376.
39. 1992 Rapid Cooling of Neutron Stars by Hyperons and Δ Isobars, M. Prakash, M. Prakash, **J. M. Lattimer** & C. J. Pethick, *Astrophys. J. Lett.* **390**, L77–L80.
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44. 1995 The Quark-Hadron Phase Transition in Protoneutron Stars, M. Prakash, J. R. Cooke & **J. M. Lattimer**, *Phys. Rev.* **D52**, 661–665.
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53. 2000 The Equation of State of Neutron Star Matter in Strong Magnetic Fields, A. Broderick, M. Prakash & **J. M. Lattimer**, *Astrophys. J.* **537**, 351–367.
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55. 2000 Nuclear Matter and its Role in Supernovae, Neutron Stars and Compact Object Binary Mergers, **J. M. Lattimer** & M. Prakash, *Phys. Rep.* **333–334**, 121–146.
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67. 2004 Minimal Cooling of Neutron Stars: A New Paradigm, D. Page, **J. M. Lattimer**, M. Prakash & A.W. Steiner, *Astrophys. J. Supp.* **155**, 623–650.
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69. 2005 Ultimate Energy Density of Observable Cold Baryonic Matter, **J. M. Lattimer** & M. Prakash, *Phys. Rev. Lett.* **94**, 1101-1104.
70. 2005 Constraining the Equation of State with Moment of Inertia Measurements, **J. M. Lattimer** & B.F. Schutz, *Astrophys. J.* **629**, 979–984.
71. 2006 Equation of State, Neutron Stars and Exotic Phases, **J. M. Lattimer** & M. Prakash, *Nucl. Phys.* **A777**, 479-496.
72. 2007 Equation of State Constraints from Neutron Stars, **J. M. Lattimer**, *Astrophys. Sp. Sci.* **308**, 371-379.
73. 2007 Neutron Star Observations: Prognosis for Equation of State Constraints, J. M. Lattimer & M. Prakash, *Phys. Rep.* **442**, 109-165.
74. 2009 Keplerian Frequency of Uniformly Rotating Neutron Stars and Quark Stars, P. Haensel, J.L. Zdunik, M. Bejger & **J. M. Lattimer**, *Astron. & Astrophys.* **501**, 605-610.
75. 2009 Neutrino Emission from Cooper Pairs and Minimal Cooling of Neutron Stars, D. Page, **J. M. Lattimer**, M. Prakash & A.W. Steiner, *Astrophys. J.* **707**, 1131-1140.

76. 2010 Tidal Love Numbers of Neutron and Strange Stars, S Postnikov, M. Prakash & J. M. Lattimer, *Phys. Rev.* **D82**, 024016(1-12).
77. 2010 The Equation of State from Observed Masses and Radii of Neutron Stars, A.W. Steiner, **J. M. Lattimer** & E.F. Brown, *Astrophys. J.* **722**, 33-54.
78. 2010 Constraints on Neutron Star Radii Based on Chiral Effective Field Theory Interactions, K. Hebeler, **J. M. Lattimer**, C.J. Pethick & A. Schwenk, *Phys. Rev. Lett.* **105**, 161102(1-4).
79. 2010 Revisiting the Parallax of the Isolated Neutron Star RX J185635-3754 Using HST/ACS Imaging, F.M. Walter, T. Eisenbeiss, **J. M. Lattimer**, B. Kim, V. Hambaryan & R. Neuhäuser, *Astrophys. J. Lett.* **724**, 669-677.
80. 2011 What a Two Solar Mass Star Really Means, **J. M. Lattimer** & M. Prakash, in *From Nuclei to Stars: Festscrift in Honor Gerald E Brown*, ed. Sabine Lee, World Scientific, Singapore, pp. 275-304; arXiv1012.3208.
81. 2011 Rapid Cooling of the Neutron Star in Cassiopeia A Triggered by Neutron Superfluidity in Dense Matter, D. Page, M. Prakash, **J. M. Lattimer** and A. W. Steiner, *Phys. Rev. Lett.* **106**, 081101(1-4).
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83. 2013 The Neutron Star Mass-Radius Relation and the Equation of State of Dense Matter, A. W. Steiner, **J. M. Lattimer** and E. F. Brown, *Astrophys. J. Lett.* **765**, L5-8.
84. 2013 Constraining the Symmetry Parameters of the Nuclear Interaction, **J. M. Lattimer** and Y. Lim, *Astrophys. J.* **771**, 51 (1-14).
85. 2013 Equation of State and Neutron Star Properties Constrained by Nuclear Physics and Observation, K. Hebeler, **J. M. Lattimer**, C. J. Pethick and A. Schwenk, *Astrophys. J.* **773**, 11 (1-14).
86. 2013 Neutron Star Masses and Radii from Quiescent Low-Mass X-ray Binaries, **J. M. Lattimer** and A. W. Steiner, *Astrophys. J.* **784**, 123 (1-15).
87. 2014 Constraints on the Symmetry Energy Using the Mass-Radius Relation of Neutron Stars, **J. M. Lattimer** and A. W. Steiner, *EPJA* **50**, 40 (1-24).
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93. 2016 Neutron Star Radii, Universal Relations, and the Role of Prior Distributions, A. W. Steiner, **J. M. Lattimer** and E. F. Brown, *EPJA* **52**, 18 (16pp.).

94. 2016 The Equation of State of Hot, Dense Matter and Neutron Stars, **J. M. Lattimer** and M. Prakash, *Phys. Rep.* **621**, 127-164.

95. 2017 Neutron Stars Are Gold Mines, **J. M. Lattimer**, *Int. J. of Mod. Phys. E.* **26**, 1740014 (33pp.).

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97. 2017 Symmetry Parameter Constraints From A Lower Bound On The Neutron-Matter Energy, I. Tews, **J. M. Lattimer**, A. Ohnishi and E. E. Kolomeitsev, *Astrophys. J.* **848**, 108.

98. 2018 Tidal Deformabilities and Radii of Neutron Stars from the Observation of GW170817, S. De, D. Finstad, **J. M. Lattimer**, D. A. Brown, E. Berger and C. M. Biwer, *Phys. Rev. Lett.* **121** 091102; erratum 259902.

99. 2018 Tidal Deformabilities and Neutron Star Mergers, T. Zhao and **J. M. Lattimer**, *Phys. Rev. D.* **98** 063020.

100. 2019 Neutron Star Mass and Radius Measurements, **J. M. Lattimer**, *Universe* **5**, 159.

101. 2019 Impact of GW170817 for the Nuclear Physics of the EOS and the R-Process, **J. M. Lattimer**, *Ann. of Phys.* **411**, 167963.

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REVIEW ARTICLES

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128. 2015 Neutron Star Constraints from Theory, Experiments and Observations, **J. M. Lattimer**, 27 May, Thessaloniki, Greece *BNS15, Workshop on Binary Neutron Star Mergers.*

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Kyoto, Japan *Compact Stars and Gravitational Waves* http://www2.yukawa.kyoto-u.ac.jp/∼npcsm/conference/slides/01Tue/Lattimer.pdf.

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144. 2017 Properties of Neutron Stars From Radio, X-Ray and Gravitational Radiation, **J. M. Lattimer**, 15-21 January, Hirschegg, Austria *Neutron Star Mergers: From Gravitational Waves to Nucleosynthesis* https://indico.gsi.de/event/5104/.

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156. 2018 The Dense Matter Equation of State as Determined from Observations of Neutron Stars, **J. M. Lattimer**, 8 June, GSI-Darmstadt, Germany, Symposium as part of *EMMI Rapid Reaction Task Force: The Physics of Neutron Star Mergers at GSI/FAIR.*

157. 2018 Neutron Star Mass and Radius Measurements, **J. M. Lattimer**, 11 - 15 June, New York City, NY *Compact Stars in the QCD Phase Diagram VII (CSQCD VII).*

158. 2018 The History of the R-Process, **J. M. Lattimer**, 1 - 7 July, Rome, Italy *Marcel Grossman XV Conference.*

159. 2018 Neutron Star Constraints from GW170817, **J. M. Lattimer**, 1 - 7 July, Rome, Italy *Marcel Grossman XV Conference.*

160. 2018 GW170817 and the History of the R-Process, 31 August, Trento, Italy *25th Anniversary of ECT*.*

161. 2018 The Nuclear Equation of State and Neutron Stars, **J. M. Lattimer**, 16 - 24 September, Erice, Italy, *The Strong Interaction: From Quarks and Gluons to Nuclei and Stars, International School of Nuclear Physics 40th Course.*

162. 2019 Neutron Star Masses and Radii, **J. M. Lattimer**, 3 - 7 Jan., Xiamen, China *Xiamen-Custipen Workshop on the Equation of State (EOS) of Dense Neutron-Rich Matter in the Era of Gravitational Wave Astronomy*, AIP Conference Proc. **2127**, UNSP 0200001.

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164. 2019 Equation of State from Neutron Star Mass and Radius Measurements, **J. M. Lattimer**, 2 - 5 July, Kyoto, Japan *The 15th International Symposium on Origin of Matter and Evolution of Galaxies (OMEG15).*

165. 2019 New Constraints on Hadronic and QCD Matter From X-Ray and Gravitational Wave Measurements, **J. M. Lattimer**, 22 - 26 July, Stockholm, Sweden *Holographic QCD.*

166. 2019 Implications of Binary Neutron Star and Black Hole-Neutron Star Mergers for Neutron Stars and Dense Matter, **J. M. Lattimer**, 17 - 21 September, Yerevan, Armenia *The Modern Physics of Compact Stars and Relativistic Gravity 2019.*

167. 2019 Compact Object Mergers and the Equation of State, 1 - 4 October, Taipei, Taiwan *Taiwan Gravity Working Group Workshop.*

168. 2019 BNS and BHNS Mergers: Implications for Neutron Stars, **J. M. Lattimer**, 7 - 11 October, Kyoto, Japan *YKIS 2019.*

169. 2019 Dense Matter Equation of State from Compact Object Mergers, **J. M. Lattimer**, 25 - 27 November, Brussels, Belgium *Solvay Workshop in honour of Michel Godefroid, New Frontiers in Atomic, Nuclear, Plasma and Astrophysics.*

170. 2019 Gravitational Waves, Neutron Stars, Nucleosynthesis and the Equation of State, **J. M. Lattimer**, 16 - 18 December, Seattle, WA *INT Workshop on Dense Matter & Neutron Star Mergers.*

171. 2020 Inferences About the Equation of State from Gravitational Waves and NICER, **J. M. Lattimer**, 20 - 24 January, Bormio, Italy *58th International Winter Meeting on Nuclear Physics.*

172. 2020 GW and NICER Constraints on Neutron Stars, **J. M. Lattimer** 17 - 21 August, Bengaluru, India *Virtual Meeting on Compact Stars and QCD 2020.*

173. 2020 Measurements of Neutron Stars and the Dense Matter EOS, **J. M. Lattimer**, 14 -28 December, Jatni Odisha, India *XXIV DAE-BRNS Virtual High Energy Physics Symposium.*

174. 2021 Symmetry Energy Constraints From Theory and Experiment, **J. M. Lattimer**, 12 - 16 July, ECT* Trento, Italy *Probing Nuclear Physics with Neutron Star Mergers.*

175. 2021 Symmetry Energy Constraints From Theory and Experiment, **J. M. Lattimer**, 27 - 30 September, Yerevan, Armenia *The Modern Physics of Compact Stars and Relativistic Gravity 2021.*

176. 2021 Nuclear Symmetry Energy from Experiment, Theory and Observations, **J. M. Lattimer**, 2 - 6 November, Paphos, Cyprus *EINN2021, 14th European Research Conference on Electromagnetic Interactions with Nucleons and Nuclei.*

177. 2022 Constraints on the EOS and nuclear symmetry energy from experiments and observations, **J. M. Lattimer**, 23 -27 May, INT Seattle, WA *The R-Process and the Nuclear EOS After LIGO-Virgo's Third Observing Run.*

178. 2022 Constraints on the Nuclear Symmetry Energy from Experiments, Theory and Observations, **J. M. Lattimer**, 1 - 5 August, Banff, Canada *CSQCD IX Compact Stars in the QCD Phase Diagram, From RHIC to Astrophysics; probing the quark-gluon plasma* J. Phys. Conf. Ser. **2536** 012009 (2023); arXiv:2308.08001.

179. 2023 Tight Symmetry Energy Parameter Constraints from Neutron Skin Measurements, **J. M. Lattimer**, Bormio, Italy, 23 - 27 January, Bormio, Italy *59th International Winter Meeting on Nuclear Physics.*

180. 2023 Experimental, Observational, and Theoretical Constraints on the Nuclear Symmetry Energy, **J. M. Lattimer**, 17 July - 11 August, INT Seattle, WA *INT Program INT 23-2, Astrophysical Neutrinos and the Origin of the Elements.*

181. 2023 Symmetry Energy from Experiment, Theory and Observation, **J. M. Lattimer**, 12 - 16 September, Yerevan, Armenia, *The Modern Physics of Compact Stars and Relativistic Gravity 2023.*

182. 2023 Correlations and Semi-Universal Relations Connecting Nuclear Matter and Neutron Stars, **J. M. Lattimer**, 3 - 6 December, Görlitz, Germany, *Polish-German WE-Aeraeus Seminar & Max Born Symposium, Many-Particle Systems Under Extreme Conditions.*