

# Stephen N. Lyle

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Nationality: British and French

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Education: Trinity College, Cambridge 1978–1982 pure mathematics and Part III theoretical physics (general relativity, particle physics, quantum field theory)

University of Paris VI (1994–1995) MSc Non-commutative integration and non-commutative geometry

L<sup>A</sup>T<sub>E</sub>X on Mac and PC

Authored publications:

- S.N. Lyle: *Uniformly Accelerating Charged Particles. A Threat to the Equivalence Principle*, Springer, Berlin, Heidelberg (2008)
- S.N. Lyle: *Self-Force and Inertia. Old Light on New Ideas*, Springer, Berlin, Heidelberg (2010)
- S.N. Lyle: Rigidity and the ruler hypothesis. In: V. Petkov (ed.), *Space, Time, and Spacetime. Physical and Philosophical Implications of Minkowski's Unification of Space and Time*, Springer, Berlin, Heidelberg, New York (2010)
- S.N. Lyle: Rigid motion and adapted frames. In: Ashtekar, A., Petkov, V. (eds.), *Springer Handbook of Spacetime*, Springer, Berlin, Heidelberg, New York (2014)

Conference talks:

- *Rigidity in Relativity*, given on 14 June 2008 at the Third International Conference on the Nature and Ontology of Spacetime. The website is [www.spacetimesociety.org/conferences/2008/index.html](http://www.spacetimesociety.org/conferences/2008/index.html)
- *Self-Force and Inertia. Old Light on New Ideas*, given as a Philosophy of Physics Research Seminar at the University of Oxford on 26 November 2009. The website is [users.ox.ac.uk/~ppox/general/seminar.html](http://users.ox.ac.uk/~ppox/general/seminar.html)

- *Electromagnetic Radiation and the Coming of Age of the Equivalence Principle*, given on 24 March 2011 at Bad Honnef in Germany as the WE Heraeus Seminar 475 entitled *Problems and Developments of Classical Electrodynamics*. The website is

[www.itp.uni-hannover.de/~giulini/Heraeus/Seminar475/](http://www.itp.uni-hannover.de/~giulini/Heraeus/Seminar475/)

- *Self-Force and Inertia. Old Light on New Ideas*, given at the University of Munich on 30 June 2011 at a conference in honour of Detlef Dürr on the occasion of his sixtieth birthday. The website is

[www.mathematik.uni-muenchen.de/~bohmmech/detleffest/index.html](http://www.mathematik.uni-muenchen.de/~bohmmech/detleffest/index.html)

Public lectures in France:

- *Le monde quantique*, talk given at the *Université populaire du pays de Foix* in Ariège, France, in February 2019
- *Alchimie et la vie d'une étoile*, talk about nucleosynthesis in stars given at the *Université populaire du pays de Foix* in Ariège, France, in February 2020
- *Une science de l'humain?*, talk about cognitive science given at *Réflexions et Echanges à Verniolle* en Ariège, France, in October 2021
- *L'Évolution de la raison. Sommes-nous devenus rationnels?*, talk about evolutionary psychology given at the *Université populaire du pays de Foix* in Ariège, France, in April 2022
- *Comprendre l'humain. Une approche naturaliste*, talk about the evolution of minds, based on the ideas of Daniel Dennett, given at the *Université populaire du pays de Foix* in Ariège, France, in April 2023
- *Comment l'astronomie a élargie son regard sur l'Univers*, a talk about the extension of astronomy to the whole of the electromagnetic spectrum, but also to the detection of neutrinos and gravitational waves, given at *Espace d'art contemporain – Galerie des Carmes*, Pamiers, France, in December 2023
- *Les trous noirs*, an introduction to the subject of black holes, given at *Espace d'art contemporain – Galerie des Carmes*, Pamiers, France, in January 2025

Translated publications:

- P. Léna, F. Lebrun, F. Mignard: *Observational Astrophysics*, 2nd edn., Springer-Verlag, Berlin, Heidelberg (1998)
- J. Crovisier, T. Encrenaz: *Comet Science*, Cambridge University Press, Cambridge (2000)

- M. Daoud, C.E. Williams (Eds.): *Soft Matter Physics*, Springer-Verlag, Berlin, Heidelberg (1999)
- L.-P Lévy: *Magnetism and Superconductivity*, Springer-Verlag, Berlin, Heidelberg (2000)
- D. Royer, E. Dieulesaint: *Elastic Waves in Solids Vol. II*, Springer-Verlag, Berlin, Heidelberg (2000)
- N. Prantzos: *Our Cosmic Future: Humanity's Fate in the Universe*, Cambridge University Press, Cambridge (2000)
- J. Salençon: *Handbook of Continuum Mechanics: General Concepts, Thermoelasticity*, Springer-Verlag, Berlin, Heidelberg (2001)
- C. Audoin, B. Guinot: *The Measurement of Time: Time, Frequency and the Atomic Clock*, Cambridge University Press, Cambridge (2001)
- S. Brunier: *Space Odyssey: The First Forty Years of Space Exploration*, Cambridge University Press, Cambridge (2002)
- F. Verger, I. Sourbès-Verger: *The Cambridge Encyclopedia of Space*, Cambridge University Press, Cambridge (2003)
- M. Cassé: *Stellar Alchemy: The Celestial Origin of Atoms*, Cambridge University Press, Cambridge (2003)
- P. Réfrégier: *Noise Theory and its Application to Physics*, Springer-Verlag, New York (2003)
- M. Capderou: *Satellites. Orbits and Missions*, Springer-Verlag France, Paris (2005)
- C. Dupas, P. Houdy, M. Lahmani (Eds.): *Nanoscience. Nanotechnology and Nanophysics*, Springer-Verlag, Berlin, Heidelberg (2007)
- S. Volz (Ed.): *Micro and Nano Heat Transfer*, Springer-Verlag, Berlin, Heidelberg (2007)
- M. Lahmani, C. Bréchnignac, P. Houdy (Eds.): *Nanoscience. Nanomaterials and Nanochemistry*, Springer-Verlag, Berlin, Heidelberg (2008)
- M. Lahmani, P. Boisseau, P. Houdy (Eds.): *Nanoscience. Nanobiotechnology and Nanobiology*, Springer-Verlag, Berlin, Heidelberg (2010)
- S. Volz (Ed.): *Thermal Nanosystems and Nanomaterials*, Springer-Verlag, Berlin, Heidelberg (2010)
- G. Grynberg, A. Aspect, C. Fabre: *Introduction to Quantum Optics*, Cambridge University Press, Cambridge (2010)

- H. Alloul: *Introduction to the Physics of Electrons in Solids*, Springer-Verlag, Berlin, Heidelberg (2011)
- M. Lahmani, F. Marano, P. Houdy (Eds.): *Nanotoxicology and Nanoethics*, Springer-Verlag, Berlin, Heidelberg (2011)
- P. Léna et al.: *Observational Astrophysics*, 3rd enlarged edn., Springer-Verlag, Berlin, Heidelberg (2011)
- J. Chaskalovic: *Mathematical and Numerical Methods for Partial Differential Equations*, Springer-Verlag, Berlin, Heidelberg (2013)
- M. Capderou: *Satellite Orbits: From Kepler to GPS*, Springer-Verlag, New York (2014)
- N. Gisin: *Quantum Chance. Nonlocality, Teleportation, and Other Quantum Marvels*, Springer-Verlag, Berlin, Heidelberg (2014)
- P. Coussot: *Rheophysics. Matter in all its States*, Springer-Verlag, Berlin, Heidelberg (2014)
- J.-M. Lourtioz, M. Lahmani, C. Dupas-Haeberlin, P. Hesto: *Nanoscience and Nanotechnology. Evolution or Revolution?*, Springer-Verlag, Berlin, Heidelberg (2015)
- P. Léna: *Racing the Moon's Shadow with Concorde 001*, Springer-Verlag, Berlin, Heidelberg (2015)
- T. Courvoisier: *From Stars to States. A Manifest for Science in Society*, Springer-Verlag, Berlin, Heidelberg (2017)
- J. Petitot: *Elements of Neurogeometry. Functional Architectures of Vision*, Springer-Verlag, Berlin, Heidelberg (2017)
- G. Brachet, A. Chabreuil, J.-J. Dechezelles, G. Duchossois (Eds.): *Earth Observation from Space, A European Success*, Tessier & Ashpool, Chantilly (2018)
- G. Lemaître: *Learning the Physics of Einstein with Georges Lemaître. Before the Big Bang Theory*, ed. by J. Govaerts and J.-F. Stoffel, Springer Nature Switzerland (2019)
- P. Léna: *Astronomy's Quest for Sharp Images. From Blurred Pictures to the Very Large Telescope*, Springer Nature Switzerland (2020)
- M. Agrò: *Music and Astronomy. From Pythagoras to Steven Spielberg*, Springer Nature Switzerland (2023), translated from Italian
- G.F. Giudice: *Before the Big Bang*, Copernicus Books, Springer Nature Switzerland (2024), translated from Italian
- V. Levizzani: *The Book of Clouds. How to Read the Sky*, Polity Books, Cambridge (2026), translated from Italian