

**SIPS 2026, in Honor of Nobel Laureate in Chemistry, Prof. Rudy Marcus**

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30 Nov - 3 Dec 2026, Rio Othon Palace, Rio de Janeiro, Brazil

### Curriculum Vitae of Garnet N. Ord

Department of Mathematics  
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#### Education

B. Sc.	Physics	Brock University	St. Catharines On.	1972
M. A.	Mathematics	York University	Toronto, On.	1975
PhD.	Physics	University of Toronto	Toronto, On.	1983

#### Employment

Postdoctoral Fellow	Cornell University	Ithaca, New York	(Ben Widom)	1983-1985
Postdoctoral Fellow	Courant Institute	New York, NY	(J.K.Percus)	(1985-1988)
Assistant Professor	Western University	London, On.		(1988-1997)
Assistant Professor	Ryerson University	Toronto, On.		(1997-2000)
Associate Professor	Toronto Metropolitan <sup>1</sup>	Toronto, On.		(2000-2024)
Emeritus	Toronto Metropolitan	Toronto, On.		2024

#### Research Areas:

Phase Transitions and Critical Phenomena, Percolation Theory, Exactly Solvable Models in Classical Statistical Mechanics, Discrete Physics, Path Integrals, Emergent Quantum Mechanics, Stochastic Models of the Dirac, Schrodinger and Maxwell Equations, Foundations and Interpretations of Quantum Mechanics.

#### Representative Publications

<sup>1</sup> Formerly Ryerson University

Ord, G. N. (2023). The Feynman chessboard model in 3 + 1 dimensions. *Frontiers in Physics*, 11. <https://doi.org/10.3389/fphy.2023.1286030>

Ord, G. (2021). How Does Spacetime “Tell an Electron How to Move”? *Symmetry*, 13(12), 2283. <https://doi.org/10.3390/sym13122283>

Ord, G. N. (1983). Fractal space-time: a geometric analogue of relativistic quantum mechanics. *Journal of Physics A: Mathematical and General*, 16(9), 1869–1884.

Publications: > 80, citations > 1200, H-index 19

#### Partial Publication List

Ord, G. N. (2023). The Feynman chessboard model in 3 + 1 dimensions. *Frontiers in Physics*, 11. <https://doi.org/10.3389/fphy.2023.1286030>

Ord, G. (2021). How Does Spacetime “Tell an Electron How to Move”? *Symmetry*, 13(12), 2283. <https://doi.org/10.3390/sym13122283>

Ord, G. (2019), Statistical Mechanics and the Ghosts of Departed Quantities, arXiv.1901.11066

Ord, G. N. (2018) Can Minkowski Spacetime Resolve Quantum Superposition? In book: *Spacetime Physics 1907-2017* Publisher: Minkowski Institute Press

Ord, G. N. (2017). Superposition as a Relativistic Filter. *International Journal of Theoretical Physics*, 56(7), 2243–2256. <https://doi.org/10.1007/s10773-017-3372-0>

Ord, G. N. (2014). Which came first, spacetime or clocks? *Journal of Physics: Conference Series*, 504, 012011. <https://doi.org/10.1088/1742-6596/504/1/012011>

Ord, G. N. (2013). Spacetime, Dirac and Bit-Strings. *Scientific Essays in Honor of H Pierre Noyes on the Occasion of His 90th Birthday*, 270–291. [https://doi.org/10.1142/9789814579377\\_0016](https://doi.org/10.1142/9789814579377_0016)

Ord, Garnet, N. (2013). Spacetime and Quantum Propagation From Digital Clocks. *The Physics of Reality*, 111–119. [https://doi.org/10.1142/9789814504782\\_0012](https://doi.org/10.1142/9789814504782_0012)

Ord, G. N. (2012). Quantum Phase from the Twin Paradox. *Journal of Physics: Conference Series*, 361, 012007. <https://doi.org/10.1088/1742-6596/361/1/012007>

Ord, G. N., & Mann, R. (2011). How Does an Electron Tell the Time? *International Journal of Theoretical Physics*, 51(2), 652–666. <https://doi.org/10.1007/s10773-011-0945-1>

Ord, G. N. (2011). What happens ... between the ticks of a clock. In *Proceedings ANPA*.

Ord, G. N. (2010). Feynman’s Corner Rule; Quantum Propagation from Special Relativity. *International Journal of Theoretical Physics*, 49(10), 2528–2539. <https://doi.org/10.1007/s10773-010-0445-8>

Ord, G. N. (2009). Quantum mechanics in a two-dimensional spacetime: What is a wavefunction? *Annals of Physics*, 324(6), 1211–1218. <https://doi.org/10.1016/j.aop.2009.03.007>

G.N. Ord, R.B. Mann, E. Harley, Zenon Harley, Qin Qin Lin, Andrew Lauritzen. (2009) Numerical experiments in relativistic phase generation through time reversal. *Advanced Studies in Theoretical Physics*, 3(3), 99-130.

- Ord, G. N. (2008). Counting oriented rectangles and the propagation of waves. *Journal of Mathematical Chemistry*, 45(1), 65–71. <https://doi.org/10.1007/s10910-008-9368-5>
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