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September 2026

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Preface

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With the mandate of Prof. Dinesh Prasad Saklani, the Hon'ble Director, NCERT, the Library and Documentation Division executes several specialized services for its patrons known as e*dudoc services*. In this edition of "EDUDOC SERVICES: CURRENT CONTENT," the LDD has delved into and presented a compilation of content pages of the recommended journals by the departments available through ONOS for the month of September 2026. The service facilitates connecting academicians with published articles in journals. For all the journals a hyperlink has also been provided for ease of navigation to the digital contents of the journals. Library and Documentation Division (LDD) at NCERT cordially invites academicians to explore and utilize our extensive collection of the recommended print journals and the journal available through ONOS. Suggestions are solicited to spruce up the library services better in honor of effectively and efficiently serving the academic community.

(Dr. Akash)
Head, LDD
NCERT, New Delhi

S.NO.	NAME OF JOURNALS	VOLUME NO.	ISSUE	MONTH	YEAR	PAGE NO.	PRINT OR ONLINE
	EDUCATION						
1.	Cambridge Journal of Education	56	5	October	2026	1-4	Online
2.	International Journal of Educational Development	125	-	September	2026	5-9	Online
3.	Sociology of Education	99	4	October	2026	10	Online
	EDUCATIONAL RESEARCH						
4.	Educational Action Research	34	4	--	2026	11-15	Online
5.	International Journal of Educational Research	140	--	--	2026	16-20	Online
6.	Scandinavian Journal of Educational Research	70	6	October	2026	21-27	Online
7.	School Effectiveness and School Improvement	37	3	September	2026	28-31	Online
8.	The Journal of Educational Research	119	6	--	2026	32-37	Online
	GENDER STUDIES						
9.	Indian Journal of Gender Studies	33	3	October	2026	38-39	Online
	GEOGRAPHY						
10.	Journal of Geography	125	5	Sep- Oct	2026	40-43	Online
	LINGUISTICS						
11.	Linguistics and Education	95	--	October	2026	44-45	Online

MATHEMATICS							
12.	Journal of Mathematics Teacher Education	**29**	**4**	**August**	**2026**	**46-48**	**Online**
PHYSICS							
13	American Journal of Physics	**94**	**10**	**October**	**2026**	**49-60**	**Online**
PSYCHOLOGY							
14.	Contemporary Educational Psychology	**86**	**--**	**September**	**2026**	**61-63**	**Online**
15.	Journal of Applied Developmental Psychology	**106**	**--**	**Sep-Oct**	**2026**	**64-66**	**Online**
16.	Journal of Cross-Cultural Psychology	**57**	**7**	**October**	**2026**	**67**	**Online**
17.	Psychology in the Schools	**63**	**10**	**October**	**2026**	**68-70**	**Online**
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18.	Biochemistry and Molecular Biology	**54**	**5**	**Sep- Oct**	**2026**	**71-73**	**Online**
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20.	European Journal of Special Needs Education	**41**	**5**	**October**	**2026**	**79-84**	**Online**
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21.	European Journal of Teacher Education	**49**	**4**	**--**	**2026**	**85-90**	**Online**
22.	Teaching and Teacher Education	**182**	**--**	**November**	**2026**	**91-94**	**Online**

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Na Zhou, Jun Guan, Tongji Li & Wilfried Admiraal

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Rachel Leslie, Aimee Thomas, Kirby Jensen, Michelle Offerman & Glenys Oberg

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Albert Cheng, Angela Watson & Matthew Lee

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Ümran Y. Nalbantoğlu & Nilay T. Bümen

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107	0	
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The link between perceived academic control, responsibility and the development of reading skills >

John Jerrim

Pages: 673-695

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434	1	
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Primary school mathematics leaders as brokers of professional learning >

Catherine Gripton, Andrew Noyes, Toby Greany, Georgina Hudson & Thomas Cowhitt

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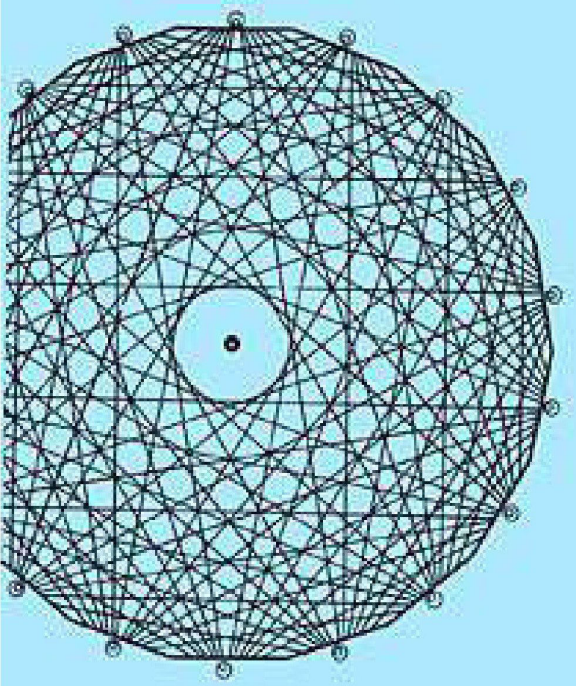
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Samuel Nyarko Agyapong

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Gökhan Uyanık

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Young learners' negotiation of meaning as task-mediated reconstruction across traditional and digital storytelling

Jiamin Xu, Angela Salmon

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The complexity of disciplinary literacy and identity in STEM: A case study of student language use in project-based learning

Amy Wanyu Ou, Linda Söderlindh

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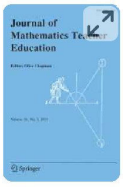
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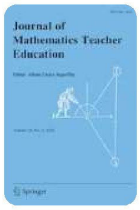
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August 2026

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Whose frameworks travel? Towards epistemological reciprocity in mathematics teacher education research

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In memoriam: the contribution of Barbara Jaworski (1944–2025) to research in mathematics teaching and mathematics teacher education

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Mathematics teacher persistence in online professional development: emerging (mis)alignments between instructional expectations and professional development utility



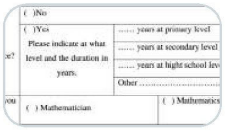
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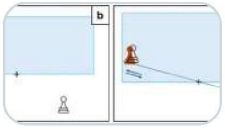
Understanding a PD facilitator's decision-making and practices: prioritizing productive professional relationships to meet teachers' PD needs

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Missing link: how teachers' understanding of student common struggles is key to their instructional response

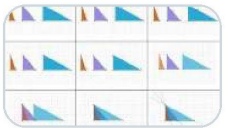
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Primary school teachers' practices for fostering embodied abstraction in geometry



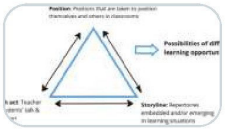
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Teacher noticing of students' mathematical thinking through a silent video task in the context of slope



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Exploring the identities of hybrid mathematics teacher educators

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Correction to: Bridging research and practice: the role of problems of practice in the research infrastructure of mathematics education

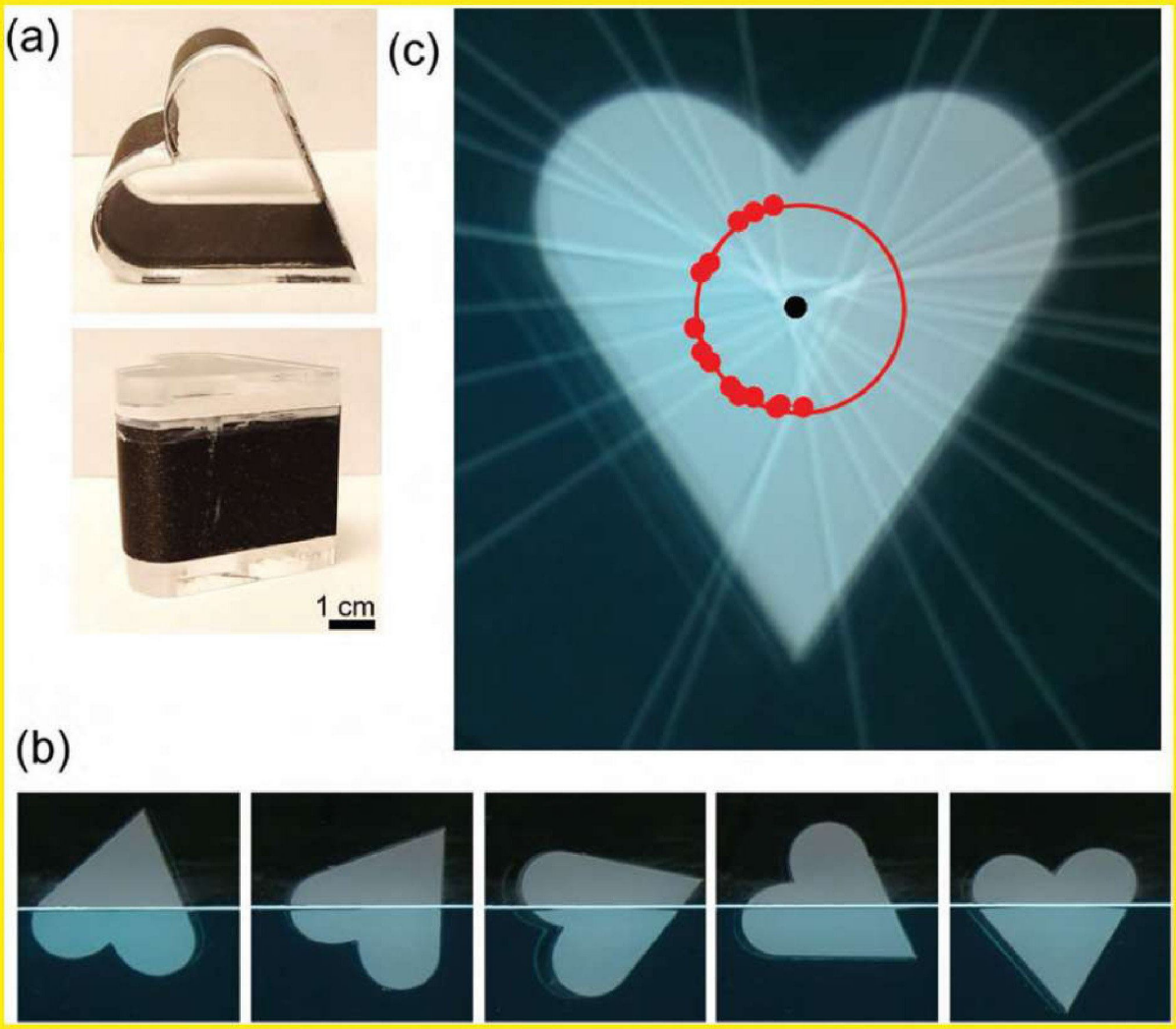
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Correction: Whose frameworks travel? Towards epistemological reciprocity in mathematics teacher education research

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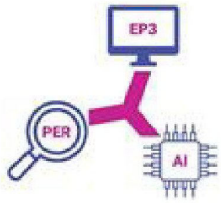
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John Essick; Harvey Gould; Jennifer T. Heath; Jesse Kinder; Claire A. Marrache-Kikuchi; Beth Parks; Donald Salisbury; Daniel Schumayer; Todd Springer; Jan Tobochnik; Keith Zengel

Am. J. Phys. 94, 833–835 (2026) https://doi.org/10.1119/5.0357587

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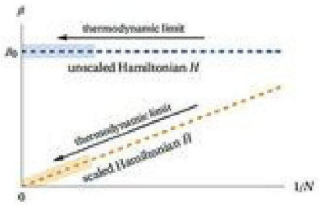
Generative AI in physics education: Approaches for instructors to integrate new tools with proven practices

Melissa Eblen-Zayas

Am. J. Phys. 94, 836–841 (2026) https://doi.org/10.1119/5.0326978

Editor's Note: This paper provides practical guidance for how instructors can integrate AI into their classrooms. It is based on *A Guide to Effective Practices for Physics Programs* (the EP3 guide) and shows how existing guidance can be combined with current research to aid instructors who want to find effective ways to teach physics in the age of AI.

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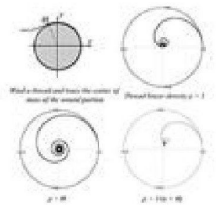
Long-range systems, (non)extensivity, and the rescaling of energies

Michael Kastner

Am. J. Phys. 94, 842–848 (2026) https://doi.org/10.1119/5.0296430

Editor's Note: If you thought that Hamiltonians were extensive, this paper will show you that, as mind-boggling as this may seem, this is not the case for systems with long-range interactions. It will also explain how to deal with those systems, how to recover an extensive energy through a rescaling of the Hamiltonian, and how strange things can occur for nonequilibrium systems. This paper certainly gives food for thought and is appropriate for advanced quantum mechanics classes.

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A physical model of the sinc function: The center-of-mass spiral

Chenguang Zhang (张晨光)

Am. J. Phys. 94, 849–852 (2026) https://doi.org/10.1119/5.0288757

Editor's Note: It's sometimes hard for physics students to make sense of mathematical functions. Why are they introduced? Can they describe real-life physical situations? This paper introduces a physical interpretation of the sinc function. By analyzing the trajectory of the center of mass of a thin, uniform thread winding around a circular core, the author demonstrates that its horizontal position oscillates according to the sinc function. In addition, when visualized in two dimensions, the full trajectory forms a distinctive spiral, which

also has fun properties. Appropriate for introductory mechanics or mathematical methods classes.

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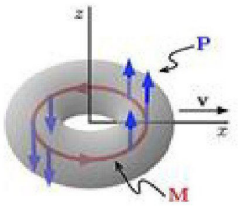
A floating body with no preferred orientation: An experimental realization FREE

Lucie Pontiggia; Angélique Campaniello; Emmanuel Fort

Am. J. Phys. 94, 853–858 (2026) https://doi.org/10.1119/5.0336528

Editor's Note: Few students will be surprised to hear that a buoyant sphere can float in any orientation. What might astonish them is the fact that there are other shapes that can float with no preferred orientation! Teachers covering buoyancy will appreciate this striking demonstration and simple tabletop experiment: a heart-shaped object that can settle at any angle.

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The electromagnetic fields of a moving anapole

Jaad Jawdat; David C. Latimer

Am. J. Phys. 94, 859–866 (2026) https://doi.org/10.1119/5.0335340

Editor's Note: The authors explore interesting features of the anapole, which is formed in the limit that a toroidal solenoid with surface current K shrinks to zero size while maintaining a constant integral of Kr2 (r is the distance from its center). Outside the anapole, the electric and magnetic fields are zero, whether the anapole is at rest or moving, but for the moving anapole, both the scalar and vector potentials are non-zero. Spin-1/2 fermions can have a non-zero anapole moment, and scattering of an anapole by a charged particle provides an example of the Aharonov–Bohm effect in which the interaction is

via the potentials rather than the fields. The calculations of the potentials of a moving anapole could be incorporated into an undergraduate electrodynamics course, while the scattering problem could be part of an introductory course in quantum field theory.

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Thermodynamic temperature without a heat engine FREE

Wayne M. Saslow

Am. J. Phys. 94, 867–870 (2026) https://doi.org/10.1119/5.0315487

Editor's Note: How does a thermometer work? The most precise methods of thermometry rely on statistical mechanics to measure temperature. In contrast, thermodynamic methods like Kelvin's use of the Carnot cycle yield temperature by measuring the flow of heat. Practical thermometers such as a platinum-resistance thermometer rely on a calibrated temperature-dependent property, but the state of a thermodynamic system never depends on temperature alone. All of this can make the seemingly simple idea of measuring temperature abstract and unintuitive. In this article, the author uses Maxwell relations for the Gibbs and Helmholtz free energies to establish a new thermodynamic method for measuring absolute temperature—one that does not require a closed thermodynamic cycle. The approach fits naturally into a course on thermodynamics and illustrates how fundamental principles can be used to map out the equation of state T(P,V) without reference to a particular system or process.

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When is quantum mechanics required to describe the thermodynamics of the ideal gas?

Yohannes Shiferaw

Am. J. Phys. 94, 871–876 (2026) https://doi.org/10.1119/5.0319007

Editor's Note: The manuscript discusses a longstanding conceptual puzzle in statistical mechanics by carefully distinguishing entropy differences within a single phase from those across phase transitions. Combining Jaynes's interpretation of the Gibbs paradox with the historical Sackur–Tetrode analysis, the author offers a compelling explanation of when quantum mechanics is (or is not) required in the thermodynamics of the ideal gas. Readers will appreciate the pedagogical clarity and valuable guidance for

teaching the concept of entropy, making it a worthwhile contribution for instructors of thermodynamics and statistical physics.

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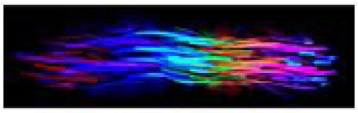
Rabi profile framework: A simple analytical and graphical toolkit for quantum control

Duje Bonacci

Am. J. Phys. 94, 877–885 (2026) https://doi.org/10.1119/5.0280145

Editor's Note: This paper extends the rotating wave approximation for Rabi oscillations, creating a framework for assessing coherent state control in systems with arbitrarily many levels. It can be taught in an advanced quantum mechanics or quantum optics classroom or used as a research diagnostic.

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The spinorial ball (II): A manipulable qubit at human scale

Samuel Bernard-Bernardet; Benjamin Apffel

Am. J. Phys. 94, 886–891 (2026) https://doi.org/10.1119/5.0268275

Editor's Note: This paper builds on a previously published article by the same authors showing how to build a polyhedron with faces that light up according to rules defined in the SU(2) group. It can be rotated at will in space to explore the SO(3) rotation group. The current paper shows how this so-called spinorial ball can mimic the behavior of a spin-1/2 particle and its evolution under a given Hamiltonian. In particular, it shows how the ball can be manipulated to explain basic concepts of quantum information, such as the Berry phase and

the Hopf fibration. This paper is appropriate for advanced quantum mechanics classes but could also serve in group theory courses.

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A digital version of Rossi's coincidence circuit

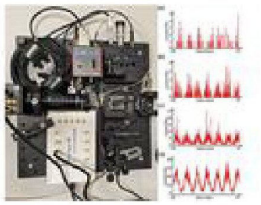
Marcello Carlà; Giacomo Poggi; Tommaso Righi; Samuele Straulino

Am. J. Phys. 94, 892–899 (2026) https://doi.org/10.1119/5.0325826

Editor's Note: In particle detection, signal coincidence is an important tool for distinguishing true from random events. This work revisits a timing circuit and associated experiments from early cosmic-ray experiments by Rossi. Here, the direct analysis of digital timing data allows coincidences to be more closely studied. This provides a useful, detailed introduction to such timing analysis while replicating Rossi's results and providing insight into these important historical experiments.

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INSTRUCTIONAL LABORATORIES AND DEMONSTRATIONS



A portable wave–particle duality experiment

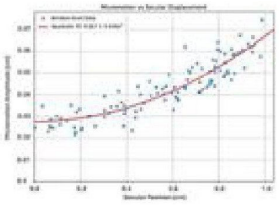
Renaud Mathevet; Benoit Chalopin

Am. J. Phys. 94, 900–905 (2026) https://doi.org/10.1119/5.0333246

Editor's Note: This paper presents a compact, robust apparatus designed to introduce the concept of wave–particle duality. The combination of single-

photon detection and time-to-digital conversion is used to observe how interferences in a Michelson interferometer transition from the quantum to the classical limit, with fringes being progressively built up. The setup is design to demonstrate wave–particle duality to a range of audiences, from classroom physics students to the general public at outreach events.

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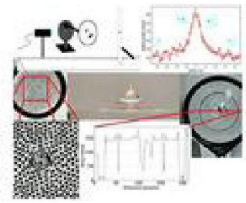
Visualizing Mathieu-type dynamics in a tabletop magnetic trap: A coil-driven parametric oscillator

William Ho; Anna Klales; Daniel Davis; Jieping Fang; Robert Hart; Ali Kurmus; Louis Deslauriers

Am. J. Phys. 94, 906–913 (2026) https://doi.org/10.1119/5.0321142

Editor's Note: The authors present a setup in which a permanent magnet is confined within anti-Helmholtz coils by a time-averaged harmonic (ponderomotive) restoring force, an effect crucial in ion trapping. The paper provides a clear exposition of the underlying mathematics of the problem, along with a detailed description of experimental procedures in which most of the features of interest are directly visible to the eye. Quantitative studies are possible by employing video tracking of the trapped magnet's motion. This project can be used as a classroom demonstration or adopted for an advanced undergraduate laboratory, and will be of special interest to institutions with an experimental group working with ion traps.

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Simulated gravitational lensing in the undergraduate laboratory

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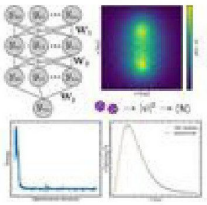
Daniel FitzGreen

Am. J. Phys. 94, 914–921 (2026) https://doi.org/10.1119/5.0292430

Editor's Note: Gravitational lensing is an extraordinary prediction of general relativity, and the visual effects it produces are striking: distortions, multiple images, Einstein rings. Many of these optical effects can be demonstrated with custom-made lenses, or even the base of a wine glass. This article takes the optical analogy further and presents a quantitative study of CNC-machined acrylic lenses, suitable for undergraduate laboratories. The author demonstrates experiments with strong lensing (Einstein rings), weak lensing (gravitational shear), and microlensing (apparent brightening of a source). Image analysis techniques from modern astronomy applied to data collected in the lab yield the effective mass of the object used in the design of the lens. The experiments described here could be incorporated across the physics curriculum—from standard three-hour labs in introductory physics, optics, astronomy, or astrophysics courses, to longer experiments in an advanced lab course, to student projects. The author has provided a comprehensive supplement for anyone who wishes to introduce and explore gravitational lensing in their own lab: instructional videos, notes, CAD files for lenses, ImageJ macros for image analysis, and Python code for designing lenses, collecting data, and analyzing data.

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COMPUTATIONAL PHYSICS



Introduction to the neural network-based variational Monte Carlo method

William Freitas

Am. J. Phys. 94, 922–930 (2026) https://doi.org/10.1119/5.0348107

Editor's Note: The author explains how neural networks can act as a trial wave function to produce essentially exact results for the ground state and wave function and perform better than traditional variational methods. Examples are given for the Yukawa potential and the hydrogen molecule. The paper also provides some guidance into how to construct neural networks for machine learning in physics problems.

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Boomeranging through the Earth: When free fall doesn't maximize proper time

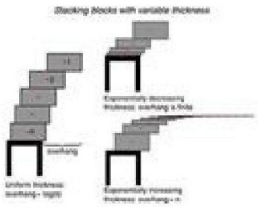
Henrique Gomes

Am. J. Phys. 94, 931–936 (2026) https://doi.org/10.1119/5.0332126

Editor's Note: This analysis offers insights that will likely surprise students who have only just recently commenced a study of general relativity. Contrary to the special theory of relativity, there do exist geodesics along which the elapse of proper time is less than along non-geodesics paths. It is a simple theoretical situation in which an evacuated cylinder provides a geodesic passage through the center of the earth, reaches the opposite side, and then returns. This could indeed lead instructors to attract more students to general relativity studies. Many additional features of this straightforward discussion will provide incentive to delve more deeply into the theory.

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NOTES AND DISCUSSIONS



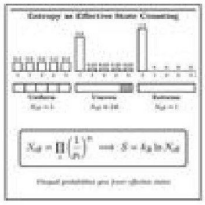
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Chenguang Zhang (张晨光)

Am. J. Phys. 94, 937–939 (2026) https://doi.org/10.1119/5.0309013

Editor's Note: A classic block-stacking puzzle becomes more interesting when the blocks have different masses. Readers discover how changing thickness or density can make the total overhang shrink, grow slowly, or even increase linearly. The "Lire Tower Transform," a neat way to turn a mass sequence into an overhang pattern, is also introduced, which may be interesting for teaching sequences. By blending physical intuition, analytical results, and simple numerical tools, one may explore different stacking behaviors with ease.

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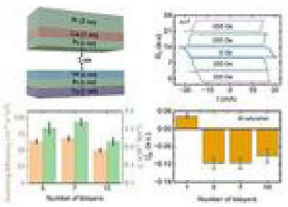
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Kyongwan Kim; Gyeong-Pil Kwon; Jinho Lee

Am. J. Phys. 94, 940–942 (2026) https://doi.org/10.1119/5.0330859

Editor's Note: Demonstrating the equivalence of the Boltzmann formulation of the entropy, $S = k_B \ln$, and the Gibbs–Shannon formulation of entropy, $S = -k_B \Sigma p_i \ln p_i$, normally requires significant mathematical manipulations. For instructors of statistical mechanics who would like to provide a more intuitive justification, this manuscript provides a teaching strategy involving counting the effective number of states available to the system.

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Comment on "The 'Littlewood's' hopping hoop dynamics" [Am. J. Phys. **94**, 359–362 (2026)] FREE

Rod Cross

Am. J. Phys. 94, 943–944 (2026) https://doi.org/10.1119/5.0340419

Editor's Note: Readers of our recent article on Littlewood's hopping hoop will be interested in this expanded discussion, which includes friction effects, different initial conditions, and new experimental data.

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Björn Mattes, Stephanie Pieschl

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Valerie Sotardi, Robert Rudolf

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Making thinking visible: metacognitive teacher talk in small-group reading instruction for upper elementary multilingual learners

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Hernán López-Morales, Julieta Mariel Sosa, Germán David Schrott, Rosario Gelpi-Trudo, ... Sebastián Urquijo

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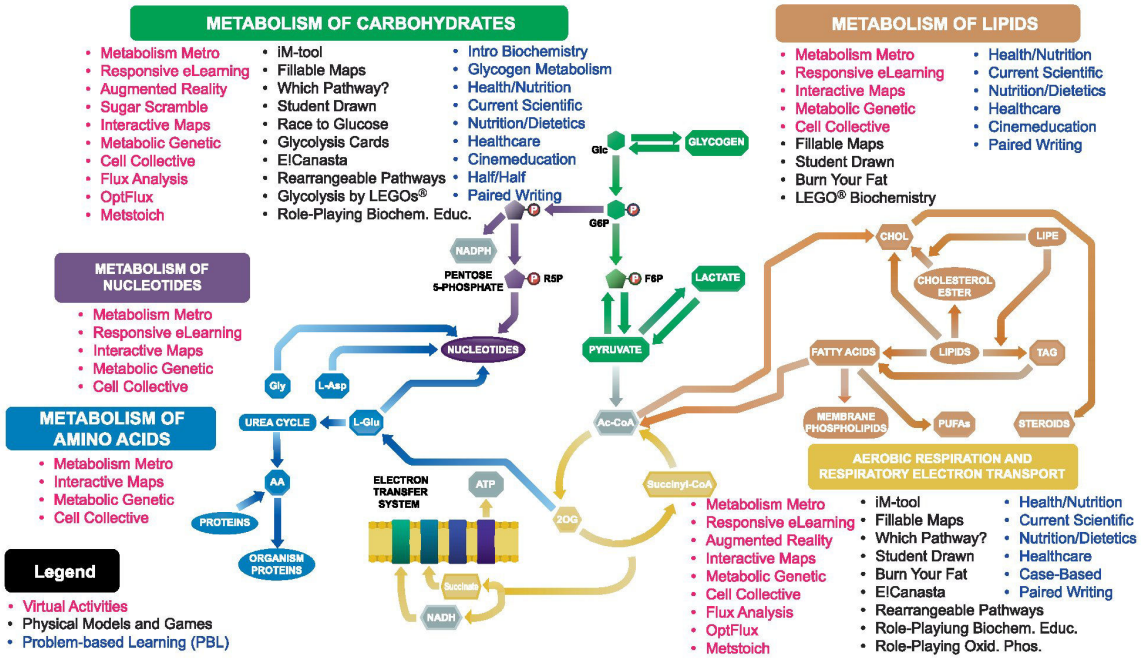
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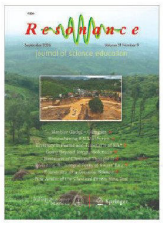
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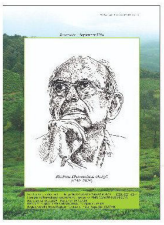
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