

Date: 19 Aug 2026

Kyoto, ORNL advance Unity-3 fusion

<https://www.neimagazine.com/news/kyoto-ornl-advance-unity-3-fusion/>

DOE funds ORNL and Kyoto Fusioneering test facility

<https://www.ans.org/news/article-8292/doe-funds-ornl-and-kyoto-fusioneering-test-facility/>

Tungsten may suffer more radiation damage in fusion reactors than expected

<https://phys.org/news/2026-08-tungsten-fusion-reactors.html>

Fusion energy expert Prof Dennis Whyte appointed next UKAEA CEO

<https://www.niauk.org/fusion-energy-expert-prof-dennis-whyte-appointed-next-ukaea-ceo/>

UW–Madison builds international collaboration through fusion energy workshop

<https://engineering.wisc.edu/blog/uw-madison-builds-international-collaboration-through-fusion-energy-workshop/>

Britain races against the world to unlock energy's holy grail

<https://www.telegraph.co.uk/business/2026/08/14/britain-races-against-the-world-to-unlock-energy-holy-grail/>

India's Nuclear Fusion Race: Bengaluru Startup Pranos Fusion Builds Private Tokamak PRAGYA

<https://mystartupnews.in/news/indias-nuclear-fusion-race-bengaluru-startup-pranos-fusion-builds-private-tokamak-pragya>

New ML framework predicts shifts between shots at DIII-D

<https://www.ans.org/news/article-8302/new-ml-framework-predicts-shifts-between-shots-at-diiid/>

Detritiation facility reopens at Culham

<https://www.world-nuclear-news.org/articles/detritiation-facility-reopens-at-culham>

VIA electronic takes microelectronics from ITER to the fusion market

<https://fusion-technology-transfer.europa.eu/success-story/via-electronic-takes-microelectronics-from-iter-to-the-fusion-market/>

The Nuclear Push: Fusion and Microreactors Leap Ahead

<https://eepower.com/news/the-nuclear-push-fusion-and-microreactors-leap-ahead>

Quark–Gluon Plasma Jet Leaves a Wake

<https://physics.aps.org/articles/v19/s100>

The glue that binds a proton may be key to its identity

<https://www.sciencenews.org/article/gluons-proton-identity-baryon>

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CERN Experiment Finds Gluons Behaving Strangely Deep Inside Atomic Nuclei
<https://scitechdaily.com/cern-experiment-finds-gluons-behaving-strangely-deep-inside-atomic-nuclei/>

Early-universe plasma may have stopped dark photons from heating cosmos
<https://phys.org/news/2026-08-early-universe-plasma-dark-photons.html>

Stars' plasma spurts may be blocked by magnetic fields
<https://www.sciencenews.org/article/stars-eruptions-plasma-magnetic-fields>

Porous tungsten scrubbed by glow discharge cleaning
<https://www.ans.org/news/article-8289/porous-tungsten-scrubbed-by-glow-discharge-cleaning/>

New measurement of diamond phase change could mean increased ICF energy gain
<https://www.ans.org/news/2026-08-14/article-8296/new-measurement-of-diamond-phase-change-could-mean-increased-icf-energy-gain/>

TRISO-X extends ORNL fuel partnership
<https://www.neimagazine.com/news/triso-x-extends-ornl-fuel-partnership/>

Multi-petawatt physics at new and future laser user facilities
<https://pubs.aip.org/aip/pop/article/33/8/080401/3401087/Multi-petawatt-physics-at-new-and-future-laser>

Stellar explosions come into focus with new nuclear reaction measurements
<https://phys.org/news/2026-08-stellar-explosions-focus-nuclear-reaction.html>

Astronomers discover a brand-new type of astrophysical object: A black hole star
<https://news.mit.edu/2026/astrophysicists-discover-brand-new-type-astrophysical-object-black-hole-star-0812>

NSF funds \$4.5 million effort to measure the world's most powerful lasers
<https://www.unr.edu/nevada-today/news/2026/laser-diagnostics-development-funded>

Bringing climate physics to middle and high school classrooms
<https://www.aps.org/apsnews/2026/08/climate-physics-middle-high-classrooms>

Steady Heat, Flexible Power: Flexibility by Proxy in Nuclear-Thermal Energy Storage Systems
<https://climate.mit.edu/posts/steady-heat-flexible-power-flexibility-proxy-nuclear-thermal-energy-storage-systems>

Agreement advances Texas gas-plus-nuclear concept to next phase
<https://www.ans.org/news/article-8301/agreement-advances-texas-gasplusnuclear-concept-to-next-phase/>

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Recent Peer-Reviewed Articles of Interest

A gas-enshrouded and gas-reddened black hole at cosmic dawn

<https://www.nature.com/articles/s41586-026-10846-4>

Ultra-compact plasma photocathode in a hybrid wakefield accelerator

<https://www.nature.com/articles/s42005-026-02814-1>

Educational reconstruction of nuclear astrophysics in a design-based research project

<https://journals.aps.org/prper/abstract/10.1103/ybmb-vknr>

Characterization of a prototype parallel-plate ²³⁸U fission chamber with DD and DT fusion neutron sources

<https://www.sciencedirect.com/science/article/pii/S0920379626003753>

Nonlinear dynamic evolution of energetic particle mode due to nonadiabatic wave-particle interaction

<https://iopscience.iop.org/article/10.1088/1741-4326/ae97f6>

[Preprint] Quodon Current in Tungsten and Consequences for Tokamak Fusion Reactors

<https://arxiv.org/html/2303.07087v3>

[Of Interest]

When it comes to science engagement, hire a professional

<https://physicstoday.aip.org/features/when-it-comes-to-science-engagement-hire-a-professional>

India begins public consultation on SHANTI Bill rules

<https://world-nuclear-news.org/articles/india-begins-public-consultation-on-shanti-bill-rules>

DAE-Nurtured Yuva Shakti Honoured at the Red Fort as International Olympiad Achievers 2026 Join the 80th Independence Day Celebrations as Special Guest

<https://www.pib.gov.in/PressReleasePage.aspx?PRID=2300030&req=48&lang=2>

Physics faculty awarded Department of Energy's Genesis Mission funding for AI-based projects

<https://www.colorado.edu/physics/2026/08/18/physics-faculty-awarded-department-energys-genesis-mission-funding-ai-based-projects>

AI agents are checking the scientific literature — and spotting decades-old errors

<https://www.nature.com/articles/d41586-026-02235-8>

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