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Date: 09 Oct 2024

Nobel Prize in physics awarded to 2 scientists for discoveries that enabled machine learning

<https://phys.org/news/2024-10-nobel-prize-physics-awarded-discoveries.html>

Press Release: <https://www.nobelprize.org/uploads/2024/10/press-physicsprize2024.pdf>

Announcement

Video: <https://www.youtube.com/live/SBGG4WNweEc?si=2T7FL4BY1c4KnuKH&t=1030>

Stopping off-the-wall behavior in fusion reactors

<https://www.pppl.gov/news/2024/stopping-wall-behavior-fusion-reactors>

Anniversary - ITER Document Management system turns 20

<https://www.iter.org/newsline/-/4084>

[Latest ITER Newline: <https://www.iter.org/whatsnew>]

UK seeking commercial, research partnerships with Singapore to further nuclear fusion research

<https://www.straitstimes.com/singapore/uk-seeking-commercial-research-partnerships-with-singapore-to-further-nuclear-fusion-research>

German companies form Pro-Fusion association to drive fusion energy development

<https://www.innovationnewsnetwork.com/german-companies-form-pro-fusion-association-to-drive-fusion-energy-development/51642/>

Neural networks boost fusion research with rapid ion temperature and rotation velocity predictions

<https://phys.org/news/2024-10-neural-networks-boost-fusion-rapid.html>

F4E unveils new fusion business opportunities at BSBF 2024

<https://fusionforenergy.europa.eu/news/fusion-opportunities-big-science-bsbf/>

LLNL presents on fusion energy at industry collaboration event

<https://www.llnl.gov/article/51881/llnl-presents-fusion-energy-industry-collaboration-event>

What China's Rapid Gains in Nuclear Fusion Mean for the U.S.

<https://www.wsj.com/video/series/us-vs-china/what-chinas-rapid-gains-in-nuclear-fusion-mean-for-the-us/214EE3DB-A96F-43A7-AAC0-161D11BA322E>

Cleaning Intense Laser Pulses with Plasma

<https://physics.aps.org/articles/v17/s123>

Mercury's magnetosphere begins to be unveiled

<https://www.polytechnique.edu/en/news/mercurys-magnetosphere-begins-be-unveiled>

NPCIL to operate small nuclear plants for private players

<https://economictimes.indiatimes.com/industry/energy/power/npcil-to-operate-small-nuclear-plants-for-private-players/articleshow/113984689.cms>

World's Highest Gamma Ray Telescope Set To Peek Into Universe's Secrets From Ladakh

<https://www.ndtv.com/india-news/worlds-highest-gamma-ray-telescope-set-to-peek-into-universes-secrets-from-ladakh-6717697>

Princeton creates Office of Innovation to enhance ecosystem for research, start-ups, tech transfer and industry collaboration

<https://www.princeton.edu/news/2024/10/04/princeton-creates-office-innovation-enhance-ecosystem-research-start-ups-tech>

[Of Interest] Why artificial intelligence and clean energy need each other

<https://www.technologyreview.com/2024/10/08/1105165/why-artificial-intelligence-and-clean-energy-need-each-other/>

Recent Peer-Reviewed Articles of Interest

Neutron imaging of the deuterium–tritium tamping gas volume in an inertial confinement fusion hohlraum

<https://pubs.aip.org/aip/rsi/article/95/10/103510/3315372/Neutron-imaging-of-the-deuterium-tritium-tamping>

Socio economic perspectives on fusion power for a sustainable future energy system

<https://www.sciencedirect.com/science/article/pii/S0920379624005301>

Collisionless cooling of perpendicular electron temperature in the thermal quench of a magnetized plasma

<https://www.nature.com/articles/s41598-024-73968-7>

Statistical theory of neutron-induced nuclear fission and of heavy-ion fusion

<https://journals.aps.org/prc/accepted/98078P0aF2a1030bf8c31d77166e777ffdfd7f3ac>