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Date: 10 June 2024

Europe and Japan invest in supercomputers to boost fusion research

<https://fusionforenergy.europa.eu/news/europe-and-japan-invest-on-supercomputers-to-boost-fusion-research/>

DOE Announces New Decadal Fusion Energy Strategy

<https://www.energy.gov/articles/doe-announces-new-decadal-fusion-energy-strategy>

USA sets roadmap for fusion commercialisation

<https://www.world-nuclear-news.org/Articles/USA-sets-roadmap-for-fusion-commercialisation>

Researchers develop world's strongest iron-based superconducting magnet

<https://www.theengineer.co.uk/content/news/researchers-develop-world-s-strongest-iron-based-superconducting-magnet>

New Insights on the Role of Nucleon Exchange in Nuclear Fusion

<https://www.energy.gov/science/np/articles/new-insights-role-nucleon-exchange-nuclear-fusion>

DIII-D gets supercomputing access through the DOE's high-speed data network

<https://www.ans.org/news/article-6095/diiid-gets-supercomputing-access-through-the-does-highspeed-data-network/>

UKAEA appoints AtkinsRéalis to design 'key element' of fusion research facility

<https://www.thechemicalengineer.com/news/ukaea-appoints-atkinsr%C3%A9alis-to-design-key-element-of-fusion-research-facility/>

Guiding principles for next generation of plasma research for microelectronics

<https://ww2.aip.org/scilights/guiding-principles-for-next-generation-of-plasma-research-for-microelectronics>

Public and private commitment needed for US advanced nuclear deployment

<https://www.world-nuclear-news.org/Articles/Public-and-private-commitment-needed-for-US-advanc>

Colorful Primordial Black Holes

<https://physics.aps.org/articles/v17/s69>

NSF Awards Hartley Grant To Study Plasma Waves

<https://physics.uiowa.edu/news/2024/06/nsf-awards-hartley-grant-study-plasma-waves>

Hype Or Reality: Will AI Really Solve Climate Change?

<https://www.forbes.com/sites/bernardmarr/2024/06/04/hype-or-reality-will-ai-really-solve-climate-change/>

EDF acquires GE Steam Power's nuclear activities

<https://www.neimagazine.com/news/edf-acquires-ge-steam-powers-nuclear-activities/>

South Korea plans to build three new NPPs and one SMR by 2038

<https://www.neimagazine.com/news/south-korea-plans-to-build-three-new-npps-and-one-smr-by-2038/>

New Evidence Challenges Origin Theory on The Universe's Heaviest Elements

<https://www.sciencealert.com/new-evidence-challenges-origin-theory-on-the-universes-heaviest-elements>

Recent Peer-Reviewed Articles of Interest

ITER and TRT—Technological Platforms for Controlled Thermonuclear Fusion

<https://link.springer.com/article/10.1134/S1063780X24600245>

The slopes of sub-barrier heavy-ion fusion excitation functions shed light on the dynamics of quantum tunnelling

<https://www.nature.com/articles/s41598-024-63107-7>

The electron jet in relativistic laser-plasma with circular magnetic fields

<https://pubs.aip.org/aip/adv/article/14/6/065204/3295614/The-electron-jet-in-relativistic-laser-plasma-with>

Effect of nanosecond laser irradiation on tungsten grain structure

<https://www.sciencedirect.com/science/article/pii/S235217912400111X>

Ruhlig's 1938 First-Ever Observation of the Fusion of $A = 3$ Ions with Deuterium: An Analysis of Secondary Reactions Following Deuteron-on-Deuterium Fusion in a Heavy Phosphoric Target

<https://www.tandfonline.com/doi/full/10.1080/15361055.2024.2334973>