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Date: 23 Oct 2024

ITER Tokamak Complex fully painted

https://fusionforenergy.europa.eu/news/iter-tokamak-complex-painting-complete/

Fusion machines advance in Spain and New Zealand

https://www.world-nuclear-news.org/articles/fusion-machines-advance-in-spain-and-new-zealand

MAST Upgrade – helping answer the big questions in fusion physics

https://www.gov.uk/government/news/mast-upgrade-helping-answer-the-big-questions-in-fusion-physics

MAST Upgrade advances fusion research

https://www.neimagazine.com/news/mast-upgrade-advances-fusion-research/

Tokamak Energy gives details of pilot fusion energy plant design

https://world-nuclear-news.org/articles/tokamak-energy-gives-details-of-pilot-fusion-energy-plant-design

In a Fusion Device Plasma, a Steep Ion Temperature Gradient Slows the Growth of Magnetic Islands

https://www.energy.gov/science/fes/articles/fusion-device-plasma-steep-ion-temperature-gradient-slows-growth-magnetic

Zap Energy launches fusion prototype

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LLNL-led team receives ARPA-E funding for technology to enable fusion power plants

https://www.llnl.gov/article/51956/llnl-led-team-receives-arpa-e-funding-technology-enable-fusion-power-plants

Nuclear fusion energy requires heat- and radiation-resilient materials to be reliable, says nuclear engineer

https://phys.org/news/2024-10-nuclear-fusion-energy-requires-resilient.html

How artificial intelligence is powering the fusion revolution

https://www.rochester.edu/newscenter/artificial-intelligence-ai-laser-fusion-energy-research-622682/

General Atomics launches fusion design tool

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Loviisa back on line after outages

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A Route Toward the Island of Stability

https://physics.aps.org/articles/v17/150

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Superconducting Technology can Pave the Way to a Carbon-Neutral Future and a Richer World

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Strengthening Ties in Fusion Science: Alain Becoulet Visits HFIPS

https://english.hf.cas.cn/nr/bth/202410/t20241015_691751.html

Ethan Peterson: Smart handling of neutrons is crucial to fusion power success

https://web.mit.edu/nse/news/spotlights/2024/ethan-peterson.html

Amazon invests in nuclear energy

https://www.neimagazine.com/news/amazon-invests-in-nuclear-energy/

Japanese reactor cleared for use beyond 50 years

https://www.world-nuclear-news.org/articles/japanese-reactor-cleared-for-use-beyond-50-years

DOE approves Aurora fuel facility

https://www.neimagazine.com/news/doe-approves-aurora-fuel-facility/

US Department of Energy announces new Fermilab contractor

https://physicsworld.com/a/us-department-of-energy-announces-new-fermilab-contractor/

China's nuclear innovation unlocked

https://www.neimagazine.com/analysis/chinas-nuclear-innovation-unlocked/

Recent Peer-Reviewed Articles of Interest

Radiative corrections to proton-proton fusion in pionless effective field theory https://journals.aps.org/prc/abstract/10.1103/PhysRevC.110.L041001

Epitaxial growth of GaN on \(\mathbb{G} - \text{Ga2O3} \) via RF plasma nitridation

https://pubs.aip.org/aip/jap/article/136/15/155701/3316916/Epitaxial-growth-of-GaNon-Ga2O3-via-RF-plasma

Development of the neutral gas diagnostic system for neutral pressure measurements and gas analysis on the SPARC tokamak

https://pubs.aip.org/aip/rsi/article/95/10/103517/3317011/Development-of-the-neutral-gas-diagnostic-system

Computational study of cathode plasma dynamics in high-power electron beam diodes by particle-in-cell simulations

https://pubs.aip.org/aip/pop/article/31/10/103904/3317003/Computational-study-of-cathode-plasma-dynamics-in