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## **FYI - FUSION NEWS/ALERTS**

Date: 07 Aug 2024

### Heating for fusion: Why toast plasma when you can microwave it!

https://www.pppl.gov/news/2024/heating-fusion-why-toast-plasma-when-you-can-microwave-it

#### First Light advances tokamak dust research

https://www.neimagazine.com/news/first-light-advances-tokamak-dust-research/

#### A method for measuring fusion power in nuclear reactors

https://www.cnr.it/it/comunicato-stampa/12884/a-method-for-measuring-fusion-power-in-nuclear-reactors

#### Japan set for production of ITER outer vertical targets

https://www.world-nuclear-news.org/Articles/Japan-set-for-production-of-ITER-outer-vertical-ta

#### A New Type of Neural Network Is More Interpretable

https://spectrum.ieee.org/kan-neural-network

#### Helion secures licence to advance Polaris fusion facility

https://www.neimagazine.com/news/helion-secures-licence-to-advance-polaris-fusion-facility/

#### A 'measure' advance for ultrashort laser light!

https://www.eurekalert.org/news-releases/1053584

# CNL Launches New Nuclear & Emerging Technologies (N2ET) Program to Accelerate Innovative, Next-Generation Technologies

https://www.thecanadianpressnews.ca/globenewswire\_press\_releases/cnl-launchesnew-nuclear-emerging-technologies-n2et-program-to-accelerate-innovative-next-generation-technologies/article 0236b27c-e8f3-5aef-ba8d-14008ccedeeb.html

#### Sustaining The Future: Environmental Effects Of Al Scale-Up

https://www.forbes.com/sites/forbestechcouncil/2024/08/02/sustaining-the-future-environmental-effects-of-ai-scale-up/

# Cosmic microwave background experiments could probe connection between cosmic inflation, particle physics

https://phys.org/news/2024-08-cosmic-microwave-background-probe-inflation.html

#### Separate research groups push fusion plasma performance to new levels

https://www.rdworldonline.com/separate-research-groups-push-fusion-plasma-performance-to-new-levels/

#### **Breaking Barriers in Scientific Discovery**

https://www.energy.gov/science/articles/breaking-barriers-scientific-discovery

## **FYI - FUSION NEWS/ALERTS**

## Scientists discover unexpected behavior in dimers of CO<sub>2</sub> molecules after ionization

https://www.eurekalert.org/news-releases/1053227

#### Recent Peer-Reviewed Articles of Interest

#### Harnessing energy from laser fusion

https://pubs.aip.org/physicstoday/article/77/8/44/3304680/Harnessing-energy-from-laser-fusionA-new-goal-for

#### Validity of gyrokinetic theory in magnetized plasmas

https://www.nature.com/articles/s42005-024-01756-w

## Prospects for free-electron lasers powered by plasma-wakefield-accelerated beams

https://www.nature.com/articles/s41566-024-01474-3

# Effect of nuclear deformation and orientation about the symmetry axis of the target nucleus on heavy-ion fusion dynamics

https://journals.aps.org/prc/abstract/10.1103/PhysRevC.110.024601

# Novel deuterium-tritium (DT) neutron activation diagnostics for increased neutron yield operations at Sandia's Z-facility (invited)

https://pubs.aip.org/aip/rsi/article/95/7/073540/3305503/Novel-deuterium-tritium-DT-neutron-activation

#### Development of Tungsten Repair Technology by Atmospheric Plasma Spraying of Tungsten and Friction Stir Processing

https://link.springer.com/article/10.1007/s11666-024-01820-5