FYI – FUSION NEWS/ALERTS

Date: 12 Dec 2025

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Department of Atomic Energy Year End Review 2025
https://www.pib.gov.in/PressReleasePage.aspx?PRID=2201302&reg=3&lang=2

Release of IMAS infrastructure and physics models as open source
https://www.iter.org/node/20687/release-imas-infrastructure-and-physics-models-open-source
[Latest ITER Newsline: https://www.iter.org/whatsnew/480]

Buildings ready to host ITER Neutral Beam power supplies
https://fusionforenergy.europa.eu/news/buildings-ready-to-host-iter-neutral-beam-power-supplies/

Report: Funding growth for private fusion companies
https://www.ans.org/news/article-7599/report-funding-growth-for-private-fusion-companies/
[Download the report] **Global Investment in the Private Fusion Sector**
https://fusionforenergy.europa.eu/wp-content/uploads/2025/11/F4E_Observatory_2025_digital.pdf

Fusion energy industry presses US government for billions in support
https://www.reuters.com/sustainability/climate-energy/fusion-energy-industry-presses-us-government-billions-support-2025-12-09/

Chandrayaan-3's RAMBHA-LP Instrument Delivers Critical 'Ground Truth' on the Moon's Plasma Environment
https://www.isro.gov.in/Chandrayaan3RAMBHALP_GroundTruth.html

Japanese nuclear fusion startup Helical signs breakthrough energy deal
https://asia.nikkei.com/business/technology/japanese-nuclear-fusion-startup-helical-signs-breakthrough-energy-deal

Cosmic neutrinos' kink could help explain origins of the elusive particles
https://www.science.org/content/article/cosmic-neutrinos-kink-could-help-explain-particles-origins

Germany Shifts To Nuclear Fusion After Fukushima-Era Fission Policy
https://www.forbes.com/sites/kensilverstein/2025/12/08/germany-shifts-to-nuclear-fusion-after-fukushima-era-fission-policy/

Japanese supermarket chain signs up for fusion power
https://www.world-nuclear-news.org/articles/japanese-supermarket-chain-signs-up-for-fusion-power

Icy hot plasmas: Fluffy, electrically charged ice grains reveal new plasma dynamics
https://phys.org/news/2025-12-icy-hot-plasmas-fluffy-electrically.html

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LZ Sets a World's Best in the Hunt for Galactic Dark Matter and Gets a New Look at Neutrinos from the Sun's Core
https://newscenter.lbl.gov/2025/12/08/lz-sets-a-worlds-best-in-the-hunt-for-galactic-dark-matter/

Funding the fusion revolution
https://energy.mit.edu/news/funding-the-fusion-revolution/

Kansas to host underground SMR pilot
https://www.neimagazine.com/news/kansas-to-host-underground-smr-pilot/

Kazakhstan aims to reclaim its nuclear legacy with fusion energy
https://cen.acs.org/energy/nuclear-power/Kazakhstan-aims-reclaim-nuclear-legacy/103/web/2025/12

3D-printed tool at SRS makes quicker work of tank waste sampling
https://www.ans.org/news/article-7604/3dprinted-tool-at-srs-makes-quicker-work-of-tank-waste-sampling/

KAIST professor wins top award in plasma engineering
https://www.koreatimes.co.kr/business/tech-science/20251206/kaist-professor-wins-top-award-in-plasma-engineering

Compact plasma camera for space missions
https://www.polytechnique.edu/en/news/compact-plasma-camera-space-missions

Scientists Just Tore Up a Major Particle Physics Theory
https://www.scientificamerican.com/article/scientists-just-tore-up-a-major-particle-physics-theory/

Direct observation reveals "two-in-one" roles of plasma turbulence
https://www.eurekalert.org/news-releases/1108461

Ghostly solar neutrinos caught transforming carbon atoms deep underground
https://phys.org/news/2025-12-ghostly-solar-neutrinos-caught-carbon.html

Chevron CEO Sees Growing Potential in Biofuels and Geothermal Energy
https://www.wsj.com/articles/chevron-ceo-sees-growing-potential-in-biofuels-and-geothermal-energy-1b7d945b

Perpetual Atomics, QSA Global produce Am fuel for nuclear space power
https://www.ans.org/news/article-7603/perpetual-atomics-qsa-global-produce-am-fuel-for-nuclear-space-power/

Recent Peer-Reviewed Articles of Interest

Reduced model describing resonance overlap threshold for fast ion transport by toroidal Alfven eigenmodes
https://iopscience.iop.org/article/10.1088/1741-4326/ae2938

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Direct observation of coexisting local and nonlocal turbulence in a magnetically confined plasma
https://www.nature.com/articles/s42005-025-02454-x

Investigation of ion acoustic double layers in magnetized plasma with two nonextensive electron species
https://www.nature.com/articles/s41598-025-31448-6

[*Of Interest*]

Astronomers Spot the Most Ancient Supernova Ever Observed
https://www.scientificamerican.com/article/nasas-jwst-spots-most-ancient-supernova-ever-observed/