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Date: 02 Apr 2025

FYI - Fusion News/Alerts

Sector module #7 finalized - Today's achievement, tomorrow's "routine"

https://www.iter.org/node/20687/todays-achievement-tomorrows-routine [Latest ITER Newsline: https://www.iter.org/whatsnew/453]

Stellarators, once fusion's dark horse, hit their stride

https://www.science.org/content/article/stellarators-fusions-dark-horse-hit-stride [Related] **Type One publishes design basis for its stellarator fusion pilot plant** https://www.ans.org/news/article-6903/type-one-publishes-design-basis-for-itsstellarator-fusion-pilot-plant/

Europe's eight cryopumps are ready for ITER

https://fusionforenergy.europa.eu/news/europe-delivers-eight-iter-cryopumps/

Precision Measurement Systems for Fusion Research

https://www.fraunhofer.de/en/press/research-news/2025/april-2025/precision-measurement-systems-for-fusion-research.html

On the path to tokamak burning plasma operation

https://euro-fusion.org/eurofusion-news/on-the-path-to-tokamak-burning-plasma-operation/

Can We Bottle a Star? Breakthrough Fusion Device Could Hold the Key

https://scitechdaily.com/can-we-bottle-a-star-breakthrough-fusion-device-could-hold-the-key/

Paving the Way to Fusion Energy

https://business.columbia.edu/insights/climate/future-of-fusion-energy

FIA Calls for Targeted Support for Fusion Startups in the EU Startup and Scaleup Strategy

https://www.fusionindustryassociation.org/fia-calls-for-targeted-support-for-fusion-startups-in-the-eu-startup-and-scaleup-strategy/

Simulations showed that six valves provided the ideal setup for rapidly dispersing cooling gas

https://www.pppl.gov/news/2025/simulations-showed-six-valves-provided-ideal-setup-rapidly-dispersing-cooling-gas

Marvel Fusion extends Series B funding by €50m

https://www.powerengineeringint.com/nuclear/marvel-fusion-extends-series-b-funding-by-e50m/

CERN releases detailed plans for supercollider — but no hints about funding https://www.nature.com/articles/d41586-025-01018-x

Lab scientists are using AI to guide the design of criticality experiments. https://www.lanl.gov/media/publications/1663/0125-nuclear-data-simulations

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Recent Peer-Reviewed Articles of Interest

Data-driven picosecond X-ray imaging for quantitative plasma-induced shock characterization

https://www.nature.com/articles/s42005-025-02021-4

Computational methods for focused arbitrary laser fields in plasma simulations

https://pubs.aip.org/aip/pop/article/32/4/043901/3341862/Computational-methods-for-focused-arbitrary-laser

Plasma channel guides electrons to 10 GeV

https://pubs.aip.org/physicstoday/article/78/4/10/3340759/Plasma-channel-guides-electrons-to-10

Application of virtual fitting in the manufacturing of the ITER European vacuum vessel sectors

https://www.sciencedirect.com/science/article/pii/S092037962500198X

Quantum mechanics goes boom

https://pubs.aip.org/aapt/pte/article/63/4/292/3340816/Quantum-mechanics-goesboom

[Of Interest]

International scientists rethink U.S. conference attendance

https://www.science.org/content/article/international-scientists-rethink-us-conference-attendance

Six roadblocks to net zero — and how to get around them

https://www.nature.com/articles/d41586-025-00935-1