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Date: 05 Nov 2024

### **Stellarators - “Things are different now”**

<https://www.iter.org/node/20687/things-are-different-now>

[Latest ITER Newline: <https://www.iter.org/whatsnew>]

### **New company takes over UK's STEP fusion programme**

<https://www.world-nuclear-news.org/articles/new-company-takes-over-uks-fusion-programme>

### **Gyrotrons: The Backbone of Fusion Energy**

<https://euro-fusion.org/eurofusion-news/gyrotrons-the-backbone-of-fusion-energy/>

### **Baking the perfect pie one piece at a time: PPPL makes progress on central magnet of NSTX-U**

<https://www.pppl.gov/news/2024/baking-perfect-pie-one-piece-time-pppl-makes-progress-central-magnet-nstx%E2%80%91>

### **Inside a fusion energy facility**

<https://www.technologyreview.com/2024/10/31/1106384/inside-a-fusion-energy-facility/>

### **Smart handling of neutrons is crucial to fusion power success**

<https://news.mit.edu/2024/smart-handling-neutrons-crucial-fusion-power-success-1101>

### **Igniting Fusion Energy's Future: The Surprising Power of Boron**

<https://scitechdaily.com/igniting-fusion-energys-future-the-surprising-power-of-boron/>

### **Investment is pouring in as the hype around nuclear fusion grows**

<https://www.businessinsider.in/artificial-intelligence/news/investment-is-pouring-in-as-the-hype-around-nuclear-fusion-grows/articleshow/114913803.cms>

### **Texas A&M receives funding to train machine learning tools in discovery of new materials for fusion power plants**

<https://www.eurekalert.org/news-releases/1063657>

### **Félicie Albert elected vice chair of APS Division of Plasma Physics**

<https://engineering.llnl.gov/article/52011/felicie-albert-elected-vice-chair-aps-division-plasma-physics>

### **LLNL's Scientific Expertise Highlighted at Plasma Physics Meeting**

<https://lasers.llnl.gov/news/llnls-scientific-expertise-highlighted-plasma-physics-meeting>

### **A New Twist on Stellarator Design**

<https://physics.aps.org/articles/v17/s124>

### **Axion clouds around neutron stars could reveal dark matter origins**

<https://physicsworld.com/a/axion-clouds-around-neutron-stars-could-reveal-dark-matter-origins/>

### **Nanoscale transistors could enable more efficient electronics**

<https://news.mit.edu/2024/nanoscale-transistors-could-enable-more-efficient-electronics-1104>

### **ABS sees potential for nuclear-powered LNG carriers**

<https://www.world-nuclear-news.org/articles/abs-sees-potential-for-nuclear-powered-lng-carriers>

### **Nuclear propulsion system proposed for European space missions**

<https://www.world-nuclear-news.org/articles/nuclear-propulsion-system-proposed-for-european-space-missions>

### **Iowa students help develop NASA satellites**

<https://physics.uiowa.edu/news/2024/11/iowa-students-help-develop-nasa-satellites>

## **Recent Peer-Reviewed Articles of Interest**

### **Physics, AI, and the future of discovery**

<https://pubs.aip.org/physicstoday/article/77/11/30/3318195/Physics-AI-and-the-future-of-discoveryLeaders-from>

### **High-temperature superconductors and their large-scale applications**

<https://www.nature.com/articles/s44287-024-00112-y>

### **Combined plasma lens and rephasing stage for a laser wakefield accelerator**

<https://www.nature.com/articles/s41598-024-78143-6>

### **Controlling the initial separation distance between two electron plasma vortices in a Malmberg–Penning trap**

<https://www.nature.com/articles/s41598-024-76070-0>

### **Nuclear energy and climate change**

<https://pubs.aip.org/physicstoday/article/77/11/10/3318353/Nuclear-energy-and-climate-change>

### **MHD-induced beta limits in the Large Helical Device**

<https://pubs.aip.org/aip/pop/article/31/10/102509/3318466/MHD-induced-beta-limits-in-the-Large-Helical>