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Date: 04 Dec 2024

### **Liquid helium production has started - “Like operating a mini-ITER”**

<https://www.iter.org/node/20687/operating-mini-iter>

[Latest ITER Newline: <https://www.iter.org/whatsnew/441>]

### **The Fire That Powers the Universe: Harnessing Inertial Fusion Energy**

<https://lasers.llnl.gov/news/fire-powers-universe-harnessing-inertial-fusion-energy>

### **ITER Leak Detection Systems closer to manufacturing**

<https://fusionforenergy.europa.eu/news/iter-leak-detection-systems-vacuum/>

### **Nuclear Engineering Professor Looks to the Future of Fusion and Fission**

<https://engineering.tamu.edu/news/2024/11/nuclear-engineering-professor-looks-to-the-future-of-fusion-and-fission.html>

### **Startorus Fusion CEO on Nuclear Fusion**

<https://www.bloomberg.com/news/videos/2024-12-03/startorus-fusion-ceo-on-nuclear-fusion-video>

### **KSTAR embarks on 2024 plasma experiments to advance fusion reactor operations**

<https://www.eurekalert.org/news-releases/1066304>

### **Germany boosts investment in fusion research to enhance collaboration**

<https://www.innovationnewsnetwork.com/germany-boosts-investment-in-fusion-research-to-enhance-collaboration/53611/>

### **FIA Engages With the European Parliament on Fusion**

<https://www.fusionindustryassociation.org/fia-engages-with-the-european-parliament-on-fusion/>

### **General Atomics Awarded Navy Contract to Advance Long Range Maneuvering Projectile**

<https://www.ga.com/ga-awarded-navy-contract-to-advance-long-range-maneuvering-projectile>

### **200 MWe lead-cooled SMR design for nuclear fusion energy to undergo UK assessment**

<https://interestingengineering.com/energy/smr-design-for-nuclear-fusion>

### **The hunt for heat: Drilling the deepest holes on Earth**

<https://www.bbc.com/future/article/20241129-drilling-the-deepest-holes-on-earth-how-to-bore-12-miles-into-our-planets-crust>

### **Discussing the future of high-capacity photonic chips**

<https://ww2.aip.org/scilight/discussing-the-future-of-high-capacity-photonic-chips>

### **Réjean Boivin Named Newest Editor-in-Chief for Review of Scientific Instruments**

<https://publishing.aip.org/about/news/rejean-boivin-newest-editor-in-chief-for-review-of-scientific-instruments/>

### **LANL researchers complete HALEU criticality experiment**

<https://www.world-nuclear-news.org/articles/lanl-researchers-complete-haleu-criticality-experiment>

### **5 million med devices sterilised with E-beam Radiation Tech developed by RRCAT**

<https://timesofindia.indiatimes.com/city/indore/india-achieves-milestone-with-5-million-medical-devices-sterilised-using-e-beam-technology/articleshow/115908699.cms>

### **Bose Institute to host global meet on particle research**

<https://timesofindia.indiatimes.com/city/kolkata/bose-institute-hosts-global-assembly-for-groundbreaking-particle-research-initiative/articleshow/115946680.cms>

### **[Of Interest] ChatGPT turns two: how the AI chatbot has changed scientists' lives**

<https://www.nature.com/articles/d41586-024-03940-y>

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

### **Physics and technology maturity level required for the K-DEMO design points**

<https://www.sciencedirect.com/science/article/pii/S092037962400591X>

### **Study on the changes in the reverse recovery characteristics of high-power thyristor under 14.1 MeV fusion neutron irradiation**

<https://www.sciencedirect.com/science/article/pii/S0920379624005945>