

Date: 09 July 2024

## **Fusion technologies - Closing a fusion schism**

<https://www.iter.org/newsline/-/4061>

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

## **ITER delay: what it means for nuclear fusion**

<https://www.nature.com/articles/d41586-024-02247-2>

## **Ion temperature saturation observed in current fusion machines, a risk for ITER?**

[https://irfm.cea.fr/en/Phocea/Vie\\_des\\_labos/Ast/ast.php/?t=fait\\_marquant&id\\_ast=950](https://irfm.cea.fr/en/Phocea/Vie_des_labos/Ast/ast.php/?t=fait_marquant&id_ast=950)

## **Fusion is real, and it's now**

<https://www.ans.org/news/article-6134/fusion-is-real-and-its-now/>

## **European steel for Test Blanket Modules arrives in Korea**

<https://fusionforenergy.europa.eu/news/test-blanket-modules-steel/>

## **The design of nuclear fusion systems: 'complexity is our greatest enemy, modelling is the solution'**

<https://www.differ.nl/news/phd-torben-beernaert>

## **EU Fusion Business Forum unveils new market opportunities**

<https://fusionforenergy.europa.eu/news/fusion-business-forum-technology-industry/>

## **Kyoto Fusioneering looks toward a 'Made in Japan' approach for nuclear fusion**

<https://www.japantimes.co.jp/environment/2024/07/07/energy/kyoto-fusioneering-nuclear-fusion-supply-chains/>

## **TU Eindhoven and KU Leuven enter into solid semicon collaboration**

<https://innovationorigins.com/en/tu-eindhoven-and-ku-leuven-enter-into-solid-semicon-collaboration/>

## **LHC physicists spill the beans in Boston**

<https://cerncourier.com/a/lhc-physicists-spill-the-beans-in-boston/>

## **Exploring Advanced Optics for LiDAR Technology**

<https://www.laserfocusworld.com/directory/applied-optical-systems/instrumentation-lidar-systems/blog/55093919/shanghai-optics-inc-exploring-advanced-optics-for-lidar-technology>

## **Here's how we're understanding the origins of the first stars in the Universe**

<https://www.sciencefocus.com/comment/james-webb-space-telescope-first-stars>

## **Physicists report first measured isomeric-ratio in multinucleon-transfer reactions: A doorway to access terra incognita**

<https://phys.org/news/2024-07-physicists-isomeric-ratio-multinucleon-reactions.html>

### **Is AI a major drain on the world's energy supply?**

<https://japantoday.com/category/tech/is-ai-a-major-drain-on-the-world%27s-energy-supply>

### **Cineca's Bassini on the Secrets of Leonardo's Supercomputing Power**

<https://www.eetimes.eu/cinecas-bassini-on-the-secrets-of-leonardos-supercomputing-power/>

### **Russia begins construction of advanced arctic nuclear service vessel**

<https://www.neimagazine.com/news/russia-begins-construction-of-advanced-arctic-nuclear-service-vessel/>

### **IAEA conducts first uranium production cycle review in Uganda**

<https://www.neimagazine.com/news/iaea-conducts-first-uranium-production-cycle-review-in-uganda/>

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

#### **Thermoelectrics for nuclear fusion reactors: opportunities and challenges**

<https://pubs.rsc.org/en/Content/ArticleLanding/2024/TA/D4TA02197E>

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

<https://journals.aps.org/prc/accepted/8407fP16Zd814f0ce807133794cb939656a90a33f>

#### **Super-resolution machining of single crystalline sapphire by femtosecond laser-induced, plasma-assisted ablation**

<https://phys.org/news/2024-07-super-resolution-machining-crystalline-sapphire.html>