

Waves In Plasmas

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Waves In Plasmas

Robust and intrinsic The localized plasma waves produced by phase transitions ... protected excitation exists in magnetized plasmas is a big step forward that can be explored for practical ...

Discovery of 10 faces of plasma leads to new insights in fusion and plasma science

The discovery by theorists at the US Department of Energy's (DOE) (PPPL) found that a magnetized plasma has 10 unique phases and the transitions between them might hold rich implications for practical ...

Discovery of 10 Phases of Plasma Leads to New Insights

In a new study, planetary researchers from the UK, the US, China and Belgium have discovered that the auroral X-ray emissions were triggered by periodic vibrations of Jupiter's magnetic field lines.

Planetary Scientists Solve Mystery of Jupiter's X-Ray Auroral Flares

An international team of astronomers may have finally cracked the 40-year mystery of Jupiter's powerful and periodic X-ray flares.

Mystery of Jupiter's X-Ray Aurora has been Solved

This unified introduction provides the tools and techniques needed to analyze plasmas and connects plasma phenomena to ... through to collective phenomena of waves in plasma. This provides students ...

Principles of Plasma Physics for Engineers and Scientists

caused by shock waves from coronal mass ejection (CME) from our Sun reflecting and accelerating electrons in interstellar plasmas. It's a novel mechanism and an exciting discovery that changes a ...

Still Working After All These Years: The Voyager Plasma Wave Subsystem

No, it's not because you've got the AC cranked at 68 degrees in response to this freaking heat wave that's been hitting ... We always figured that LCDs and plasmas used less power than CRTs ...

Big TVs = Big electric bills

Funded by the U.S. Department of Energy, he is exploring different pathways for using the power and speed of quantum computing — when it is eventually available — to study electromagnetic waves in ...

Revisiting a quantum past for a fusion future

Plasmas exist in neon and fluorescent tubes ... They then used computer modelling to confirm that the waves would drive the heavy particles towards Jupiter's atmosphere. Why the magnetic field ...

Mystery over Jupiter's aurora is SOLVED: X-ray bursts are transported by plasma waves through a similar process to how Earth produces the Northern Lights, scientists say

Flux ropes form in plasmas, such as the Sun's corona ... Caption: Movie of a sunquake – the earthquake-like waves that ripple through our star. Left frame shows the active region in visible light ...

The Heliopedia

UV and X-ray spectroscopy of astrophysical and laboratory plasmas draws interest from many disciplines ... These papers constitute an excellent up-to-date review of developments in short-wave length ...

UV and X-Ray Spectroscopy of Laboratory and Astrophysical Plasmas

A new type of transport barrier in fusion plasmas that improves the magnetic ... by precisely applied heating of the plasma with radio waves created an area in the centre of the plasma with ...

Digital twins for fusion plasmas

Chen Xianhui from University of Science and Technology of China of the Chinese Academy of Sciences (CAS) found an unusual competition between charge density wave (CDW) and superconductivity in ...

Physics news

From the dynamics of subatomic particles to electromagnetism, fluids, plasmas and gravity among astronomical bodies ... for the energy-critical wave maps and (hyperbolic) Yang–Mills equations, which ...

CAREER: Dynamics of Nonlinear Dispersive Partial Differential Equations

caused by shock waves from coronal mass ejection (CME) from our Sun reflecting and accelerating electrons in interstellar plasmas. It's a novel mechanism and an exciting discovery that changes a ...

Voyager 2

June 21, 2021 — Dr. Ambrish Satwik talks with Dr. Satchit Balsari and Dr. Polly Roy about India's path out of the deadly second coronavirus wave. They share their insights on the virus, the different ...

COVID-19: Plasmas And Other Medicines — Are They Required?

So instead of hitting our test rooms on the crest of a wave, the PS50A756 arrives amid ... as good as anything Panasonic can offer with its plasmas right now. Pioneer's KURO sets can, of course ...