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~~How Fusion Reactors~~

~~Control Plasma - 2016~~

~~CHRISTMAS~~

~~LECTURES Science~~

~~Action: How does a
magnetic field confine a
plasma? Fusion~~

Research Lecture #15 -

External kink instability

A Plasma Positioning

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Antenna for Tokamaks
with Blankets |

Johannes Lips Plasma
and Plasma Physics 7a

The tokamak concept
Plasma Physics - 7.1 -

The tokamak concept
and operation Fusion

Power Explained –

Future or Failure What

is a tokamak? And is a

spherical tokamak

different? 7c

Performance and

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operational limits of
tokamaks Controlling a
tokamak plasma

Tokamak Physics for
fusion energy

FIRST

BREAKTHROUGH
IN AIR-BREATHING
PLASMA

PROPULSION - Part 1
Putting Plasma to Work
(DIY Fusion Reactors,
Magnetrons and More!)

Fusion Plasma Physics

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and ITER - An Plasma

Introduction (1/4)

Stellarators - The

Future of Fusion Energy

[2020] Nuclear Fusion -

Tokamak VS Stellarator

Plasma in Magnetic

Field How

Tokamak Research is

Paving the Way for

Successful Fusion

Energy Reactors |

Rachel McDermott

~~Fusion Energy~~

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~~Explained Inside ST40 -~~
~~the world's first high-~~
~~field spherical tokamak~~
Lecture 15 -

Magnetohydrodynamics
, beta, magnetic
pressure, sausage
instabilities, kink
instability Wendelstein
7-X – from concept to
reality MIT's Pathway
to Fusion Energy (IAP
2017) - Zach Hartwig
How do we measure 15

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million degrees? Public
Lecture | Super-Human
Operator: Controlling
Accelerators with
Machine Learning
Mod-01 Lec-06 Hall
Effect, Cowling Effect
and Cyclotron
Resonance Heating
GENPA Seminar—Yue
Zhang—Sustained
Neutron Production
from a Sheared Flow—
Stabilized Z Pinch

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INSTABILITIES IN
PLASMA

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Keywords: diagnosis,
control, plasma,
instabilities, tokamaks,
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probes for the diagnosis
of tokamak edge
plasmas. Langmuir

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probes are still one of the most commonly applied diagnostics in tokamaks but our understanding of how to interpret them in strong magnetic fields is still rather limited Recent results from

Tokamak plasma
diagnosis by electrical
probes

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A crucial problem of research in thermonuclear plasma physics in Tokamaks is the control of rotating helical magnetic perturbations, associated with local distortions of the current density profile. These unstable perturbations (called magnetic islands) can seriously degrade plasma and energy

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Diagnosis

confinement. Plasma

Instabilities

Tokamaks

Diagnosis and Control

Magnon

of Plasma Instabilities in

TOKAMAKs

Externally applied, non-axisymmetric magnetic fields form the basis of several relatively simple and direct methods to control magnetohydrodynamic (MHD) instabilities in a tokamak, and

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Matsuo

most present and planned tokamaks now include a set of non-axisymmetric control coils for application of fields with low toroidal mode numbers.

Magnetic control of magnetohydrodynamic instabilities in ...

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one or all of them. How Fusion Reactors Control Plasma - 2016

CHRISTMAS

LECTURES Lecture 7

- Magnetic confinement: Tokamak and Stellarator.

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List of plasma

instabilities. Buneman

instability,

Farley – Buneman

instability,

Jeans – Buneman

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instability, Relativistic
Buneman instability,
Cherenkov instability,
Coalescence instability,
Non-linear coalescence
instability. Chute
instability,

Plasma stability -
Wikipedia

A typical architecture of
an ECRH system
devoted to the control of

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instabilities includes: the real-time detection of the instabilities by proper plasma diagnostics and an actively steered actuator that injects EC beams towards their target during the plasma discharge.

Real-time control of the plasma instabilities in

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Frascati ... Plasma

(2020, October 22). For the first time: Realistic simulation of plasma edge instabilities in tokamaks: Trigger and course of plasma instability explained / agreement with the experiment ...

For the first time:
Realistic simulation of

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plasma edge... Plasma
enable efficient control
Instabilities
techniques to mitigate
Tokamaks
their impact on machine
operation. An accurate
diagnosis of the
dynamics of REs lost
from tokamak plasmas is
essential to understand
RE generation and
transport mechanisms,
and, ultimately, to
enable effective control
schemes to minimise

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damage to plasma-
facing comp-onents.

Instabilities

Tokamaks

Analysis of runaway
electron expulsion
during tokamak ...
Artificial intelligence
improves control of
powerful plasma
accelerators. Dec 11,
2020. ... For the first
time: Realistic
simulation of plasma

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edge instabilities in
tokamaks. Your friend's
email.

Tokamaks

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For the first time:

Realistic simulation of
plasma edge ...

Tokamak plasma
experiments on the DIII-
D device demonstrate
high-performance,
negative central shear
(NCS) equilibria with

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enhanced stability when the minimum safety factor q_{min} exceeds 2, qualitatively confirming theoretical predictions of favorable stability in the NCS regime. The discharges exhibit good confinement with an L-mode enhancement factor $H_{89} = 2.5$, and are ultimately limited by the ideal-wall external kink stability boundary

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as predicted by ideal
MHD theory, as long as
tearing ...

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Magnetic control of
magnetohydrodynamic
instabilities in ...

Ripples control new
bursts. ... Optimal
magnetic fields for
suppressing instabilities
in tokamaks ... Scientists
tame damaging plasma

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instabilities in Plasma

facilities. Aug 22, 2018

Instabilities

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Discovered: Optimal
magnetic fields for
suppressing ...

The course on
operations and control
focuses engineering and
physics aspects of
creating and sustaining
a plasma discharge in a

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tokamak. This includes study of plasma magnetic (position & shape) control, control of kinetic quantities and of plasma instabilities, discharge preparation including breakdown and real-time equilibrium reconstruction.

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of tokamaks | FuseNet

control action to
stabilize such

instabilities as tearing

modes and resistive wall

modes. Satisfying the

simultaneous demands

on control accuracy,

reliability, and

performance for all of

these subsystems

requires a high degree of

integration in both

design and operation of

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the plasma control
system in an advanced
tokamak.

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INTEGRATED
PLASMA CONTROL
FOR ADVANCED
TOKAMAKS

Externally applied, non-axisymmetric magnetic fields form the basis of several relatively simple and direct methods to

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magnetohydrodynamic

(MHD) instabilities in a

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present and planned

tokamaks now include a

set of non-axisymmetric

control coils for

application of fields ...

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Instabilities

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