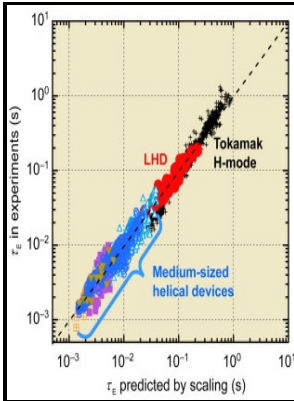


Design study of the large helical device

National Institute for Fusion Science - DESIGN STUDY ON DIVERTOR PLATES OF LARGE HELICAL DEVICE (LHD)



Description: -

-
Magnetic traps.
Particle accelerators.
Engineering test reactors -- Design and construction.
Fusion reactors -- Design and construction. Design study of the large helical device

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Tags: [#\[PDF\]](#) [#Overview](#) [#of](#) [#the](#) [#Large](#) [#Helical](#) [#Device](#)

Large Helical Device (LHD) program

The amounts of retained gases were observed to be large in the vicinity of anodes used for the glow discharges. In results, the feasibility of this vacuum vessel design has been shown in this study. The divertor concepts that will initially be explored in these large machines were prepared in smaller-scale devices like Heliotron E, Compact Helical System CHS, and Wendelstein 7-AS W7-AS.

Plasma wall interaction study in the large helical device

Plasmas 1 2 1994, 345. Fusion 32 1992, 1047; H. While advanced divertor scenarios relevant for W7-X were already studied in W7-AS, other smaller-scale experiments like Heliotron-J, CHS, and National Compact Stellarator Experiment will be used for the further development of divertor concepts.

[PDF] An Overview of the Large Helical Device Project

This paper describes the present status and progress in its experimental planning and theoretical analysis on LHD, and the design and construction of LHD torus, heating, and diagnostics equipments. Fusion 21 1981, 1079. With Large Helical Device LHD and Wendelstein 7-X W7-X, the development of helical devices is now taking a large step forward on the path to a steady-state fusion reactor.

The next large helical devices (Journal Article)

Fluids 26 1983, 3315.

[PDF] Overview of the Large Helical Device

Design of the central control system for the Large Helical Device LHD has been continued The central control system consists of a central programmable logical controller, a torus supervision monitoring system, a timing system, a protective interlock, and a man-machine interface system.

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