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### Nif Fire Pppl

The National Academies of Science, Engineering and Medicine Committee on a Strategic Plan for U.S. Burning Plasma Research will hold its 10th meeting on April 11, 2018 - April 13, 2018 at the Princeton Plasma Physics Laboratory (PPPL), Princeton, NJ.

#### The FIRE Place

This level of capability is unique to NIF NIC ignition mission requires precise adjustment of features in the laser pulse 2 4 6 8 10 12 Power (mW) 2 4 6 8 10 12 7.5 8.0 8.5 9.0 Time (ns) Power (mW) Ten MOR pulse average 100ps  $\pm$  10ps 50ps  $\pm$  10ps 300ps  $\pm$  30ps 3%  $\pm$  1% 5%  $\pm$  1% 10%  $\pm$  1%  $\pm$  denotes RMS errors

### **Title Page - Princeton Plasma Physics Laboratory**

Princeton Plasma Physics Laboratory

#### **Princeton Plasma Physics Laboratory**

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At the National Ignition Facility (NIF), 192 lasers deliver up to 1.9MJ of light into a gold hohlraum, a cylindrically shaped radiation cavity (Fig. 1), that converts the energy into a nearly Planckian X-ray bath. A fraction of the X-rays are absorbed by a capsule generating,100Mbar of pressure in the ablator (the outer shell of the capsule).

# **LETTER - Princeton Plasma Physics Laboratory**

NIF-1110-20542.ppt Moses - 31st Annual Meeting and Symposium Fusion Power Associates 31 NIF-1110-20435.ppt Moses -- APS DPP, November 10, 2010 32 NIF-1110-20430.ppt Moses Presentation to TOFE, November 2010 33

### Presented to 31 Annual Meeting and ... - The FIRE Place

DOE Budget Highlights - FIRE pppl the Continuous Electron Beam Accelerator Facility at Thomas Jefferson National Accelerator Facility, and construction of the ITER ..... The FY 2014 Budget Request includes the construction of two unique and complex tank waste processing plants and the

### Laser fusion, with a difference - FIRE pppl - SLIDELEGEND.COM

The National Ignition Facility: Status of Construction - (pdf,33 MB) B. Warner, Lawrence Livermore National Laboratory; Status of U. S. Planning for ITER - N. Sauthoff, Princeton Plasma Physics Laboratory; The U. S. Burning Plasma Support Program - R. Fonck, U. Wisconsin

# Fusion and Energy Policy - The FIRE Place

http://fire.pppl.gov/FPA14\_NIF\_Edwards.pdf This recent public presentation is not a published paper, but it gives reliable results from a scientist associated with NIF. Look at slides 4-6 for basic info about many recent shots, identified by date.

# Nuclear Fusion News from LLNL/NIF | Physics Forums

Following is a list of fusion sites on the internet for various universities, institute and organizations involved in the worldwide fusion programs. Several of these sites (as for example, those of PPPL, General Atomics, IPP Garching, JET etc) contain detailed information on fusion and plasma basics. However, this list may not be complete.

### Fusion on Internet | ITER-India

The approach to achieving fusion "ignition" by compressing a small spherical capsule containing fusion fuel to ultra-high density, using the high power laser of the National Ignition Facility (NIF) at the Lawrence Livermore National Laboratory (LLNL), relies on a technique called "indirect drive".

## French take alternate approach to fusion ignition. - Free ...

BibTeX @MISC{Nso01outline•, author = {Nif Nso and Dale M. Meade and Burning Plasma Performance Considerations}, title = {Outline • Objectives for a Next Step Experiment in Magnetic Fusion}, year = {2001}}

## CiteSeerX — Outline • Objectives for a Next Step ...

NATIONAL IGNITION FACILITY NIF Laser-based National Ignition Facility (NIF), under construction and in partial operation at LLNL, is aimed at achieving ignition beginning in 2010.

### Stephen O. Dean, President Fusion Power Associates

He said that NIF, a 192 beam laser, was designed to deliver 1.8 Megajoules in a 500 terawatt pulse, focused to a spot about 300 microns in diameter. He said the NIF construction was over 80% complete as of July 2005. He said NIF consisted primarily of 5700 "line replaceable units" of which 1000 were currently installed.

## FPA annual meeting. - Free Online Library

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