



# Heavy Ion Inertial Fusion

**D Keegan**



## Heavy Ion Inertial Fusion:

**Heavy Ion Inertial Fusion, Washington, DC, 1986** Martin Reiser, Terry Godlove, Roger Bangerter, 1986      **Heavy ion inertial fusion** HEAVY ION INERTIAL FUSION., 1986      **Heavy Ion Inertial Fusion** International Symposium on Heavy Ion Inertial Fusion, 2001      **Heavy Ion Inertial Fusion Energy**, 2011 The goal of the Heavy Ion Fusion HIF Program is to apply high current accelerator technology to IFE power production Ion beams of mass 100 amu and kinetic energy 1 GeV provide efficient energy coupling into matter and HIF enjoys R see Heavy Ion Accelerator Drivers 2 the targets which span a continuum from full direct to full indirect drive and perhaps fast ignition and have metal exteriors that enable injection at 10 Hz see IFE Target Designs 3 the near classical ion energy deposition in the targets see Beam Plasma Interactions 4 the magnetic final lens robust against damage see Final Optics Heavy Ion Beams and 5 the fusion chamber which may use neutronically thick liquids see Liquid Wall Chambers Most studies of HIF power plants have assumed indirect drive and thick liquid wall protection but other options are possible      Heavy Ion Inertial Fusion International Symposium on Heavy Ion Inertial Fusion, International Symposium on Heavy Ion Inertial Fusion. 15, 2004, Princeton, NJ., 2005      Heavy Ion Inertial Fusion, 1986      Accelerators for Heavy Ion Inertial Fusion, 1994 The Heavy Ion Inertial Fusion Program is the principal part of the Inertial Fusion Energy Program in the Office of Fusion Energy of the U S Department of Energy The emphasis of the Heavy Ion Program is the development of accelerators for fusion power production Target physics research and some elements of fusion chamber development are supported in the much larger Inertial Confinement Fusion Program a dual purpose defense and energy program in the Defense Programs part of the Department of Energy The accelerator research program will establish feasibility through a sequence of scaled experiments that will demonstrate key physics and engineering issues at low cost compared to other fusion programs This paper discusses progress in the accelerator program and outlines how the planned research will address the key economic issues of inertial fusion energy      *Heavy Ion Inertial Fusion* Kai Siegbahn, Erik Karlsson, 1989      *HIF 2012, 19th International Symposium on Heavy Ion Inertial Fusion: [August 12 - 17, 2012, Berkeley, California, USA]*, 2014      *Heavy Ion Inertial Fusion. Proceedings of the International Symposium ; 9*, 1992      *Heavy Ion Inertial Fusion*, 2005      *Heavy Ion Inertial Fusion* Centro Ricerche Energia di Frascati, 1993

**Heavy-ion Inertial Fusion**, 1981 Inertial fusion targets have been designed for use with heavy ion accelerators as drivers in fusion energy power plants We have made an initial survey of target gain versus beam energy power focal radius and ion range This provides input for understanding the trade offs among accelerator designs      *Status and Perspectives of Heavy Ion Inertial Fusion* R. Bock, 1989      **Heavy Ion Beams for Inertial Fusion**, 1980 The United States program in inertial confinement fusion ICF is described in this paper with emphasis on the studies of the use of intense high energy beams of heavy ions to provide the power and energy needed to initiate thermonuclear burn Preliminary calculations of the transport of intense ion beams in an electrostatic quadrupole focussing structure are discussed      Drift Compression and

Final Focus Systems for Heavy Ion Inertial Fusion Michiel Jan Laurens de Hoon, 2001      **Atomic Processes for Heavy Ion Inertial Fusion** Michael Scott Armel, 2000      **Heavy Ion Inertial Fusion** Lawrence Berkeley National Laboratory, Fusion Power Associates, 2001      Heavy Ion Inertial Fusion J. D. Lawson, Science and Engineering Research Council. Rutherford Appleton Laboratory, 1983      *The High Current Transport Experiment for Heavy Ion Inertial Fusion*, 2004

The High Current Experiment HCX at Lawrence Berkeley National Laboratory is part of the US program to explore heavy ion beam transport at a scale representative of the low energy end of an induction linac driver for fusion energy production. The primary mission of this experiment is to investigate aperture fill factors acceptable for the transport of space charge dominated heavy ion beams at high intensity line charge density  $H_0 = 2 \mu\text{C/m}$  over long pulse durations  $4 \mu\text{s}$  in alternating gradient focusing lattices of electrostatic or magnetic quadrupoles. This experiment is testing transport issues resulting from nonlinear space charge effects and collective modes, beam centroid alignment and steering, envelope matching, image charges and focusing field nonlinearities, halo and electron and gas cloud effects. We present the results for a coasting 1 MeV K ion beam transported through ten electrostatic quadrupoles. The measurements cover two different fill factor studies: 60% and 80% of the clear aperture radius for which the transverse phase space of the beam was characterized in detail along with beam energy measurements and the first halo measurements. Electrostatic quadrupole transport at high beam fill factor  $H_0$  is achieved with acceptable emittance growth and beam loss even though the initial beam distribution is not ideal but the emittance is low nor in thermal equilibrium. We achieved good envelope control and rematching may only be needed every ten lattice periods at 80% fill factor in a longer lattice of similar design. We also show that understanding and controlling the time dependence of the envelope parameters is critical to achieving high fill factors, notably because of the injector and matching section dynamics.

## **Heavy Ion Inertial Fusion** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Heavy Ion Inertial Fusion**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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