

# Free Electron Lasers 2001



The 23rd International Free Electron Laser Conference and the 8th FEL Users Workshop were held on August 20-24, 2001 at the Technische Universität Darmstadt (TUD) in Germany. This conference has been one in a series of FEL Conferences administered by an International Executive Committee. It was organized by the Institute of Nuclear Physics of the TUD in which in 1996 the first Free Electron Laser in Germany went into operation with the superconducting Darmstadt electron linear accelerator (S-DALINAC) as a driver.

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**X-ray free-electron lasers : Nature Photonics : Nature Research** Single-pass free-electron lasers based on self-amplified spontaneous emission are A typical X-ray free-electron laser is a few kilometres in length and requires an electron-beam energy .. Science 292, 20372041 (2001). **X-ray free-electron lasers : Nature Photonics : Nature Research** 1.1 Summary of energy gain obtained in Inverse Free Electron Laser .. Neptune Laboratory, Proceedings of the 2001 Particle Accelerator Conference,. **Free-electron-laser studies of the relaxation of H<sup>+</sup> and D<sup>+</sup> local** The free electron laser (FEL) will be an outstanding tool for research and industrial application. This book describes the physical fundamentals on the basis of **Towards a free electron laser based on laser plasma accelerators** Nakajima K 2008 Towards a table-top free-electron laser Nature Phys. . Milton S V et al 2001 Exponential gain and saturation of a self-amplified spontaneous **A compact free-electron laser for generating coherent radiation in** Freund H P 2001 Nonlinear harmonic generation in distributed optical Yu L H et al 2000 High gain harmonic generation free-electron-laser **High-gain harmonic generation free-electron laser at saturation** Pellegrini C 2012 History of the x-ray free-electron laser European Physics . Fawley W M 2001 Ginger FEL simulation code Fawley W M LBNL **Saturation of Ultraviolet Free-Electron Lasers** Science Nishimori N, Hajima R, Nagai R and Minehara E J 2001 High extraction efficiency observed at the JAERI free-electron laser Nucl. Instrum. Methods Phys. Res. **Microwave-induced control of free-electron-laser radiation** Nuclear Instruments and Methods in Physics Research A 475 (2001) 260265. New results of the high-gain harmonic generation free-electron laser experiment. **Operation of a Free-Electron Laser from the Extreme - SLAC** In a free-electron laser (FEL) the lasing medium is a high-energy beam of [21] Cornacchia M et al 2001 A Sub-Picosecond Photon Pulse Facility for SLAC **X-ray free-electron lasers: from dreams to reality - IOPscience** We report results on the performance of a free-electron laser operating at a Soon

after, in September 2001, a group at DESY (Hamburg, **New results of the high-gain harmonic generation free-electron laser** A compact X-ray free-electron laser emitting in the sub-angstrom region . The free-electron laser, first proposed by Madey in 1971, has significantly reduced laser wavelengths to the vacuum ultraviolet .. Science 292, 20372041 (2001). **Free Electron Laser (FEL) Applications for Photomedicine** The novel technologies and the free-electron laser principle are here explained Design Report (TDR Part V The X-ray free electron laser (2001)) for TESLA. **Highly coherent and stable pulses from the FERMI seeded free** Applications of High Field and Short Wavelength Sources IX OSA Trends in Optics and Photonics (Optical Society of America, 2001), paper **Physics, technology, and applications of x-ray free-electron lasers** Received 30 April 2001 published 24 October 2001 initiation of the free-electron laser process from quantum fluctuations in the position and momentum of the.

**Novosibirsk terahertz free electron laser: instrumentation** The first observation of sustained saturation in a free-electron laser (FEL) oscillator at perfect synchronism of an Rev. Lett. 86, 5707 Published . **Operation of a free-electron laser from the extreme ultraviolet to the** Researchers demonstrate the FERMI free-electron laser operating in the stable pulses from the FERMI seeded free-electron laser in the extreme ultraviolet .. Als-Nielsen, J. & McMorrow, D. Elements of Modern X-ray Physics (Wiley, 2001). **A compact X-ray free-electron laser emitting in the sub-angstrom** How the free-electron laser works. By David F. Salisbury Oct. 9, 2001. The free-electron laser (FEL) is an ideal instrument for charting the interactions of light and **The free-electron laser harmonic cascade - IOPscience** Microwave-induced control of free-electron-laser radiation. A. J. Blasco, L. Plaja, L. Roso, and Phys. Rev. E 64, 026505 Published . More [[hep-ph/0112254](#)] **Fundamental physics at an X-ray free electron laser** arXiv:hep-ph/0112254v1 19 Dec 2001 Figure 1: Principle of a single-pass X-ray free electron laser in the self amplified spontaneous **Acceleration Of Electrons By Inverse Free Electron Laser Interaction** Yu, L. H. (2001). High-gain harmonic generation free-electron laser at saturation. In P. Lucas, & S. Webber (Eds.), Proceedings of the IEEE Particle Accelerator **FEL Basics - DESY Photon Science** A seeded free-electron laser with a two-stage harmonic upshift configuration Proceedings of the 2001 Particle Accelerator Conference WPPH108 (2001). **X-ray free-electron lasers - SLAC National Accelerator Laboratory** FEL-multiple wavelengths on demand. Laser Focus World. Sept., 2001, pg. Free Electron Laser (FEL). Applications for Ophthalmology. The T.R. Lee Center **The Physics of Free Electron Lasers Evgeny Saldin Springer** (Submitted on ). Abstract: X-ray free electron lasers (FELs) have been proposed to be constructed both at SLAC in the form of the so-called Linac **FUNDAMENTAL PHYSICS AT AN X-RAY FREE ELECTRON LASERa** We report results on the performance of a free-electron laser operating at a wavelength of 13.7 nm September 2001, a group at DESY (Hamburg, Germany). **Two-stage seeded soft-X-ray free-electron laser : Nature Photonics** TESLA Technical Design Report. PART V. THE X-RAY FREE ELECTRON LASER. March 2001. Editors: G. Materlik, Th. Tschentscher