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The 2018 Physics Nobel Prize, Part 2: What IS Laser Chirped Pulse Amplification? - The 2018 Physics Nobel Prize, Part 2: What IS Laser Chirped Pulse Amplification? by Atoms and Sporks 41,122 views 5 years ago 13 minutes, 31 seconds - A discussion of the context and **physics**, of the work of Gerard Mourou and Donna Strickland on Chirped Pulse Amplification ...

Introduction

Chirped Pulse Amplification

Applications

What is it

Femtosecond Laser Filaments in Diffraction Imaging and Remote Sensing | Protocol Preview - Femtosecond Laser Filaments in Diffraction Imaging and Remote Sensing | Protocol Preview by JoVE (Journal of Visualized Experiments) 294 views 1 year ago 2 minutes, 1 second - Femtosecond Laser, Filaments for Use in Sub-Diffraction-Limited Imaging and Remote Sensing - a 2 minute Preview of the ...

LASERTEC \"Principle of Femtosecond Laser\" - LASERTEC \"Principle of Femtosecond Laser\" by DMG MORI Japan 20,517 views 2 years ago 3 minutes, 9 seconds - DMGMORI #Machinetools #Lasermachining #PulseLaser #Non\_thermalprocessing #hard\_to\_cutmaterials #burr.

Attosecond Lasers (2023 Nobel Prize in Physics) - Sixty Symbols - Attosecond Lasers (2023 Nobel Prize in Physics) - Sixty Symbols by Sixty Symbols 390,048 views 4 months ago 23 minutes - The Nobel Prize in **Physics**, 2023 goes to Pierre Agostini, Ferenc Krausz and Anne L'Huillier \"for experimental methods that ...

What is a femtosecond laser? - What is a femtosecond laser? by Kugler Vision 1,283 views 5 years ago 1 minute, 13 seconds - We had a question come in, \"what is a **femtosecond laser**,?\" Doug from KV

MythBusters answers your question and tells you the ...

Word of the Day

What is a femtosecond

Outro

Laser Plasma Lab Filamentation - Laser Plasma Lab Filamentation by CREOLatUCF 3,008 views 10 years ago 1 minute, 1 second - A decade and a half now old, **laser**, light **filamentation**, in air is still challenging its basic concepts, producing new and unexpected ...

Interview with Ryan Coffee - What is a Femtosecond? - Interview with Ryan Coffee - What is a Femtosecond? by SLAC National Accelerator Laboratory 11,583 views 6 years ago 2 minutes, 9 seconds - Ryan Coffee, scientist at SLAC's Linac Coherent Light Source X-ray **laser**., explains, \"What is a **femtosecond**,?\" This video is part of ...

Lightning in the lab: Femtosecond laser generating plasma in air - Lightning in the lab: Femtosecond laser generating plasma in air by Dave Sheludko 55,495 views 14 years ago 1 minute, 5 seconds - A 100GW 35fs 1kHz **laser**, is focussed down to a narrow waist, which creates an electric field large enough to ionise the air. How a Fiber Laser works \u0026 how a 30w fiber laser can output 24kw of laser power - How a Fiber Laser works \u0026 how a 30w fiber laser can output 24kw of laser power by Roger Webb 47,584 views 1 year ago 8 minutes, 53 seconds - Video712 How a Fiber **Laser**, works \u0026 how a 30w fiber **laser**, can output 24kw of **laser**, power. A Roger Clyde Webb easy Thunder ...

How Do Laser Beams Engrave Things? (slow motion) | WIRED - How Do Laser Beams Engrave Things? (slow motion) | WIRED by WIRED 273,733 views 1 year ago 6 minutes, 1 second - A fiber **laser**, can carve super intricate designs into any metal in just 10 seconds. The **laser**, is getting so hot the metal is vaporizing ... Physicists Saw How REALITY Works for the first time and were Shocked – Physics Nobel Prize 2023 -

Physicists Saw How REALITY Works for the first time and were Shocked – Physics Nobel Prize 2023 by EXOPLANET-Sci 335,886 views 5 months ago 12 minutes, 32 seconds - nobelprize #nobleprize2023 #attophysics #attoseconds #nobelprizeinphysics #**physics**, #Pierre Agostini #Ferenc Krausz #Anne ... Ursula Keller - Ultrafast pulsed lasers - Ursula Keller - Ultrafast pulsed lasers by European Patent Office 38,936 views 5 years ago 7 minutes, 59 seconds - Open for more More about exceptional inventors and the European Inventor Award organised by the European Patent Office: ...

How Attosecond Spectroscopy Won the 2023 Nobel Prize in Physics and What It Means for Astronomy - How Attosecond Spectroscopy Won the 2023 Nobel Prize in Physics and What It Means for Astronomy by NASASpaceNews 24,725 views 4 months ago 11 minutes, 57 seconds - In this episode, we explain what attosecond spectroscopy is and why it won the 2023 Nobel Prize in **physics**.. We also explore how ...

Introduction

What is an attosecond and how is it generated?

What can attosecond spectroscopy reveal about the nature of matter?

How can attosecond spectroscopy revolutionize many fields of science, especially astronomy?

Outro

Enjoy

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What is Attosecond Physics? Nobel Prize 2023 Physics (Explained) - What is Attosecond Physics? Nobel Prize 2023 Physics (Explained) by Dibyajyoti Das 41,330 views 5 months ago 11 minutes, 33 seconds - The Nobel Prize in **Physics**, 2023 was awarded jointly to Pierre Agostini, Ferenc Krausz and Anne L'Huillier - for experimental ...

Ferenc Krausz - Attosecond Physics (VIDEO PORTRAIT) - Ferenc Krausz - Attosecond Physics (VIDEO PORTRAIT) by Max Planck Institute of Quantum Optics 161,458 views 1 year ago 15 minutes - Ferenc Krausz is one of the five scientific Directors at the Max Planck Institute of Quantum **Optics**, and founder of field of ...

Faster Than We Thought Possible - Nobel Prize in Physics 2023 Explained - Faster Than We Thought Possible - Nobel Prize in Physics 2023 Explained by Science Discussed 377,013 views 5 months ago 7 minutes, 34 seconds - The Nobel Prize in **Physics**, for 2023 has been awarded to Pierre Agostini, Ferenc Krausz, and Anne L'Huillier for for experimental ...

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A New Prototype! Femtosecond Laser creates Laser Induced Periodic Surface Structures - A New Prototype! Femtosecond Laser creates Laser Induced Periodic Surface Structures by ESCI - European Science Communication Institute 1,343 views 2 years ago 3 minutes, 42 seconds - This industry prototype is the key result of the Laser4Surf project. It includes an ultrashort-pulse **laser**., an innovative beam shaping ... Scientific Reports : Tubular filamentation for laser material processing - Scientific Reports : Tubular filamentation for laser material processing by ScienceVio 240 views 8 years ago 31 seconds - An open challenge in the important field of **femtosecond laser**, material processing is the controlled internal structuring of dielectric ...

Investigating the laser-induced periodic surface structure (LIPSS) of silicon - Investigating the laser-induced periodic surface structure (LIPSS) of silicon by Science X: Phys.org, Medical Xpress, Tech Xplore 605 views 1 year ago 2 minutes, 39 seconds - The electronic and **optical**, devices that we use on a daily basis, such as mobile phones, LEDs and solar cells use transistors and ...

You Won't Find This At Home - Femtosecond Laser System - You Won't Find This At Home - Femtosecond Laser System by UNSW 12,463 views 7 years ago 1 minute, 21 seconds - This **Femtosecond Laser**, System, residing at the Molecular Photonics Laboratories at UNSW, fires laser pulses in femtoseconds ...

FEMTOSECOND LASER SYSTEM

This system can also

The goal is to harvest energy

Improving supersonic flights with femtosecond laser filamentation - Improving supersonic flights with femtosecond laser filamentation by ScienceVio 494 views 5 years ago 53 seconds - When a flying object becomes supersonic, a concomitant increase in drag leads to a considerable rise in fuel consumption. DSIAC Webinar: \"Ultra-Short Pulse Laser Filamentation and Nonlinear Effects in Optical Materials\" - DSIAC Webinar: \"Ultra-Short Pulse Laser Filamentation and Nonlinear Effects in Optical Materials\" by Defense Systems Information Analysis Center 2,057 views 3 years ago 50 minutes - The propagation of high-intensity, ultra-short pulse **laser**, (USPL) beams through transparent materials generates a cascading ...

Introduction

Zachary Quine

Outline

Filament

Nonlinear Effects

The Experiment

Sample Selection

Selected Results

Magnesium Fluoride

Moving Selenide

Conserved Trends

Angleresolved spectral measurements

Single and multiple filamentation

Conclusion

Question

Femtosecond Pump-Probe Spectroscopy - Femtosecond Pump-Probe Spectroscopy by cmditr 69,415 views 12 years ago 18 minutes - The **Femtosecond**, Pump Probe Spectrometer is used to measure absorption of species in the excited state. It is sometimes called ...

Introduction

Pump Probe Overview

Pump Probe Demonstration

Program Setup

Analysis Software

PHAROS - Modular-Design Industrial-Grade Femtosecond Lasers - PHAROS - Modular-Design Industrial-Grade Femtosecond Lasers by Light Conversion 849 views 2 years ago 1 minute, 10 seconds - PHAROS is a **series**, of **femtosecond**, lasers combining millijoule pulse energy and high average power. PHAROS features a ...

Webinar replay:Femtosecond laser beam shaping with CANUNDA-PULSE for microfluidic chip manufacturing - Webinar replay:Femtosecond laser beam shaping with CANUNDA-PULSE for microfluidic chip manufacturing by Cailabs - Shaping the Light 170 views 10 months ago 42 minutes - How can a tailored hat beam shape improve weld quality and yield in microfluidic chip manufacturing? Webinar content Cailabs ...

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Ultra Short Pulse laser processing principle A high quality athermal process

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Microfluidic chip manufacturing using USP lasers The purpose of the collaboration between Cailabs and LASEA

Yield improvement with a standard set-up A shaping module compatible with a scanner and a F-theta  
\"Move into Nano-World by Femtosecond Lasers\", Wolfgang Kautek | Open Readings 2015 - \"Move into Nano-World by Femtosecond Lasers\", Wolfgang Kautek | Open Readings 2015 by Open Readings 6,702 views 8 years ago 1 hour, 4 minutes - This lecture is a part of 58th international scientific conference for students of **physics**, and natural sciences \"Open Readings 2015\" ...

University of Vienna

Laser Applications

Airborne Laser

Radiation Emission  
The Nanoworld  
Impact Ionization  
Avalanche Excitation  
Periodic Nano Structures  
Cell Growth Engineering  
The Self-Organization  
Polarization of Light  
Tip Enhanced Raman Scattering  
Advantages of Femtosecond Lasers  
Ripples in Dielectrics and Polymers  
Bonding Strains  
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