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University of Rochester
researchers describe first highly
chirped pulses created by a using
a spectral filter in a Kerr
resonator. The 2018 Nobel Prize
in Physics was shared by
researchers who ...

Highly Chirped Laser Pulses Defy
"Conventional Wisdom"
Antimatter is believed to play a
huge part in the story of our
universe. It's the counterpart to
matter: identical in every way -
with protons, neutrons and
electrons - but with an opposite

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electric ...

Antimatter: Scientists Trap
Elusive Material by Blasting It
With Lasers

The Wisconsin Heights Summer
Science Camp in Mazomanie was
the first quantum science
outreach program in rural
Wisconsin.

12-year-olds studying quantum
physics? Specialized STEM camp
introduces students to exploding
science field

With a compact format
specifically designed for students,
the first part ... of atomic physics:
lasers, cold atoms, solid-state
spectroscopy and astrophysics.

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This highly pedagogical text
includes ...

A Student's Guide to Atomic
Physics

For example, when Spectra-
Physics Lasers reported results on
April 25 for the first quarter of
2001 ... but it is still a lot more
than it was a year ago. Part of the
problem is that everybody has to
...

Spectra Physics says: Thank God,
we're a laser business
Canadian scientist, Professor
Donna Strickland, has been
named joint winner of this year's
Nobel Prize for Physics ... "CPA
gets round this problem in a

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really elegant way by, as the name suggests, ...

A bird's chirp and lasers more intense than the sun: The science behind a Nobel Prize in Physics Graduate and doctoral level physics programs want to see that a student researcher can take the lead and solve problems ... and sounds of the first physics lab he set foot in at the age of 19, from ...

Cold, hard facts of physics She talks to Julianna Photopoulos about the importance of multidisciplinary for tackling real-world problems ... her PhD in physics, focusing on biophotonics,

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in 2017. "I merged physics and biology ...

Combining physics and biology:
lasers and machine learning for
personalized medicine

The Russian-American researcher
Eugene Demler is to receive the
Hamburg Prize for Theoretical
Physics 2021. Demler, who has
been a physics professor at
Harvard University in the USA
since 2001 and ...

Quantum researcher Eugene
Demler receives Hamburg Prize
for Theoretical Physics

If physicists can build them,
nuclear clocks would be a brand-
new type of clock, one that would

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keep time based on the physics of ... by the nucleus, the laser would first excite the electrons ...

Nuclear clocks could outdo atomic clocks as the most precise timepieces

That would be a problem ... of laser pulses move a water sample toward crystallization inside an ultra-high vacuum chamber. Stop-motion images of the spectra during the first 30 pulses show ...

Laser-focused on supercooled water

A new approach to teaching undergraduate physics labs not only adapted the courses for remote learning but also taught

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students valuable practical skills.

Virtual Learning Helped Push
Caltech Physics Labs into the
Future

Unlike existing methods, the
theoretical foundation is secure
against any attacker constrained
by the speed of light and the laws
of physics ... we have a much
bigger problem.

Burning Things With Big Lasers In
The Name Of Security

Utilizing the right ultrashort pulse
laser with Bessel beam optics,
high quality cutting of glass with
thicknesses ranging from 100 μm
to >1.5 mm is achievable with ...
the truth is that there is a ...

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June 8th Webinar - Materials Processing Webinar: Lasers, Optics, and Testing and laser physics. Our program combines flexibility with rigor in order to help our students develop a broad skill set, including computation, experimental, critical thinking, and problem-solving.

Physics for 21st Century Careers and Grand Challenge Research Problems

According to quantum physics, the extra electron in this atom would either absorb or not absorb the photon energy of a laser ... to detect moving masses. The first

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source of noise is the collision ...

From burglar alarms to black hole detectors: Super sensors as possible outputs of a quantum gravity experiment

Part of the problem for companies ... for different wavelengths and laser properties." As a result, QED-C has launched an initiative to identify the technology and market intersections that should be ...

Converting quantum promises into commercial realities

According to quantum physics, the extra electron in this atom would either absorb or not absorb the photon energy of a laser ... to

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detect moving masses. The first
source of noise is the collision ...

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