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Laser cooling and trapping techniques have given researchers new tools to explore the atom's dynamics and control. The book gives a good introduction to the forces that arise when an atom interacts with a light (laser) field, and puts a lot of emphasis on giving the reader an excellent idea of what's going on when atoms and photons interact.

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MAY 1ST, 2020 - LASER COOLING AND TRAPPING 1  
INTRODUCTION LASER COOLING AND TRAPPING OF NEUTRAL ATOMS IS A RAPIDLY MATURING AND YET STILL EXPANDING AREA OF PHYSICS RESEARCH THAT HAS SEEN DRAMATIC NEW DEVELOPMENTS OVER THE TWO DECADES THESE INCLUDE THE ABILITY TO COOL ATOMS DOWN TO UNPRECEDENTED KINETIC TEMPERATURES WELL BELOW

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Our group utilizes laser-cooling and -trapping of neutral atoms,

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pictured, to push the boundaries of quantum control. Using these tools, we are investigating topics in precision measurement, quantum information, ultracold plasmas, and strong magnetic field physics. Click below to read more. Contact Information.

## **Raithel Group: Laser Cooling and Trapping**

2.1 LASER COOLING The primary force used in laser cooling and trapping is the recoil when momentum is transferred from photons scattering off an atom. This radiation-pressure force is analogous to that applied to a bowling ball when it is bombarded by a stream of ping-pong balls.

## **Laser Cooling and Trapping - Physics**

The first example of laser cooling, and also still the most common method (so much so that it is still often referred to simply as 'laser cooling') is Doppler cooling. Other methods of laser cooling include: Sisyphus cooling; Resolved sideband cooling; Raman sideband cooling; Velocity selective coherent population trapping (VSCPT) Gray molasses

## **Laser cooling - Wikipedia**

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## **Amazon.com: Customer reviews: Laser Cooling and Trapping ...**

Steven Chu, Claude Cohen-Tannoudji and William D. Phillips were awarded the 1997 Nobel Prize in Physics for their work in laser cooling and atom trapping. Brief explanation. Doppler cooling involves light with frequency tuned slightly below an electronic transition in an atom.

## **Doppler cooling - Wikipedia**

If you are a researcher or a teacher in laser cooling and trapping or a related field of atomic, molecular, and optical physics, then this is a a ~must buya (TM) text for your bookshelf. And buy one for your students too, because your copy will inevitably disappear." The Physicist .."For its intended use, which is to guide newcomers into the ...

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### **Atomic, Molecular & Optical - UMD Physics**

The study led by Mitra and graduate student Nathaniel B. Vilas is the focus of a new paper published in Science. In it, the group describes using a novel method combining cryogenic technology and direct laser light to cool the nonlinear polyatomic molecule calcium monomethoxide ( $\text{CaOCH}_3$ ) to just above absolute zero.

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