

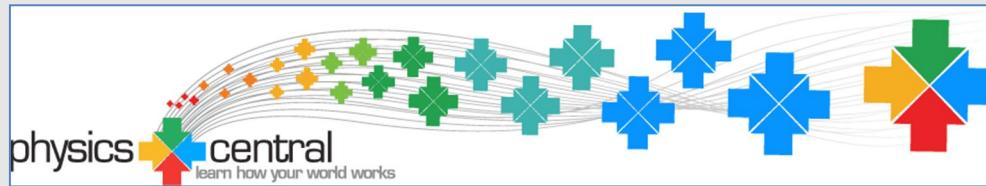
Name of the Tool

Physics Central

Home Page

The screenshot shows the homepage of Physics Central. At the top, there's a navigation bar with links to American Physical Society Sites: APS, Journals, PhysicsCentral, and Physics. Below the navigation is the Physics Central logo with the tagline "learn how your world works". A decorative graphic of colored plus signs (green, blue, yellow, red) is positioned above the logo. To the right of the logo is a brain map with various regions labeled: CC, LD, STR, VLP, CA, SM, CL, LP, MD, R, IC, Ins, LS, STG, CM, Pa, VPL, Pu, Cl, PF, and VPM. Below the brain map, there's a section titled "Neuralink" with the text "A new company is working to unite the human mind with machines." On the right side of the page, there's a "Physics Buzz Blog" section featuring two articles: "A Star is Born...in Surprising Circumstances" (published Monday, July 10, 2017) and "Spinning Black Holes Could Create Clouds of Mass" (published Thursday, June 29, 2017). Below the brain map, there's a "discover" section with several blue circular icons representing different physics concepts. The overall design is clean and modern, with a focus on science and education.

Logo



URL

<http://www.physicscentral.com/>

Subject

Physics - Directories

Accessibility

Free

Language

English

Publisher

American Physical Society

Brief History

Subject to research

Scope and Coverage

American Physical Society communicates the excitement and importance of physics to everyone through ‘PhysicsCentral’. The American Physical Society (APS) represents about 48000 physicists through it and most of APS work centers on scientific meetings and publications are also represented.

Kind of Information

It helps to explore the science by providing information on different aspects like physics in action, physics +, people in physics, physics in pictures, podcasts & vodcasts, science off the sphere, explore Einstein and so on. It also gives information on different topics like chaos, sounds and wave, electricity and magnetism, space and the universe, thermodynamics and heat, quantum mechanics, force and motion, light and optics, material science etc. Each of those topics can be identified by its unique photo. Such as:



Pictures of physics are given in different topics and those are kept in archives. Each of those pictures is provided with its title, brief description and image credit. An example is given below:

The Heart of a Volcano



An errant speck of dust likely settled on this cross-section of a thin-film solar cell during the manufacturing process, causing a protrusion that looks like an erupting volcano. Yinghong Hu, a graduate student in materials science at the Ludwig-Maximilians-University in Munich, and her co-worker Andreas Binck took the image with a scanning electron microscope. The defect would harm the efficiency of the solar cell, but Hu was struck by the evocative shape. She added colors and enhanced the contrast of the picture with Photoshop to suggest a molten core.

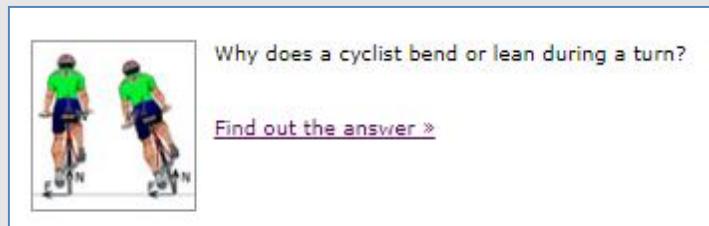
Solar cells like this one contain materials with a so-called perovskite crystal structure and are relatively inexpensive to manufacture. Since they were first made in 2009, their efficiency has skyrocketed from under 4 percent to more than 20 percent, rivaling traditional silicon solar cells.

Image Credit: Image courtesy of the Materials Research Society (www.mrs.org) Science as Art Competition and Yinghong Hu, Ludwig-Maximilians—Universität München.

Under each of the categories, different topics are provided with date, videos, images, related terms etc. Latest topics are highlighted

Resources for educators include information on outreach guides, physics posters, American Physical Society Online Journals Available Free in U.S. High Schools, programmes etc.

Important question answers are discussed on several topics and those are described with logical explanation and pictures. Example is shown below:



Why does a cyclist bend or lean during a turn?

[Find out the answer »](#)

In PhysicsBuzz, different articles are given with date, description, photographs, graphical representation and videos (wherever required).

Special Features

- Web pages can be printed directly.
- Different types of videos (e.g.: experimental) can be seen.
- PDF documents can be downloaded.
- RSS Feed option can be seen.

Arrangement Pattern

Pictures are arranged topics-wise and those topics are arranged alphabetically as shown below:

Physics in Pictures by Topic

- [Chaos \(38\)](#)
- [Compression Waves & Sound \(17\)](#)
- [Electricity & Magnetism \(33\)](#)
- [Force & Motion \(23\)](#)
- [Light & Optics \(70\)](#)
- [Material Science \(74\)](#)
- [Quantum Mechanics \(39\)](#)

In the PhysicsQuest, different projects and topics are arranged in chronological order as follows:

- [Spectra: High Intensity \(2015\)](#)
- [Spectra's Quantum Leap \(2014\)](#)
- [Spectra: Turbulent Times \(2013\)](#)
- [Spectra Heats Up! \(2011\)](#)
- [Spectra's Force \(2010\)](#)

Remarks

It can be considered as the primary way through which physicists communicate with each other. PhysicsCentral developed a series of comic books to accompany physics experiments around different physics themes.

Comparable Tools

- Physlink.com (<http://www.physlink.com/>)

Date of Access

12th July' 2017.