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An experiment is a procedure carried out to support, refute, or validate a hypothesis. Experiments provide insight into cause-and-effect by demonstrating what outcome occurs when a particular factor is manipulated. Experiments vary greatly in goal and scale, but always rely on repeatable procedure and logical analysis of the results.

Experiment - Wikipedia

1. Introduction. Physics is an experimental science, and as such the experimental basis for any physical theory is extremely important. The relationship between theory and experiments in modern science is a multi-edged sword:

Experimental Basis of Special Relativity

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Rutgers Physics News Incoming Assistant Prof. in Astrophysics, Blakesley Burkhart, has won the Annie Jump Cannon Award of the American Astronomical Society. The Annie Jump Cannon Award is for outstanding research and promise for future research by a postdoctoral woman researcher.

Rutgers University Department of Physics and Astronomy

i Abstract Kenneth Jacobs, Development of a Diffraction Imaging Flow Cytometer for Study of Biological Cells (Under the direction of Dr. Xin-Hua Hu) Department of Physics, April 2010

Cells (Under the direction of Dr. Xin-Hua Hu) Department

Four on-lattice and six off-lattice models for active matter are studied numerically, showing that in contact with a wall, they display universal wetting transitions between three distinctive phases.

Condensed Matter authors/titles "new" - arXiv

Blair Williams and Wilson Bentley by Duncan C. Blanchard (April 24, 2007) On a warm summerâ€™s day in August, 1966, with popcorn clouds sailing east from over Lake Champlain, I drove from Burlington to Jericho to begin my quest to learn all that I could about Wilson Bentley, the Jericho farmer who in 1885 made the worldâ€™s first photographs of snowflakes.

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