The Dupont Summit.

The New Administration Tackles Science & Technology: Priorities for Discovery and Advance

12:30 - 2:00 pm Plenary Session 9

TECHNOLOGICAL IMPERATIVES OF THE TRANSATLANTIC MARKET

henry@jhu.edu

Richard Conn Henry (Chair)

Professor of Physics & Astronomy, Johns Hopkins University

Michael Maibach

President, European-American Business Council

John Williamson

Senior Fellow, Peterson Institute for International Economics

Richard Rosecrance

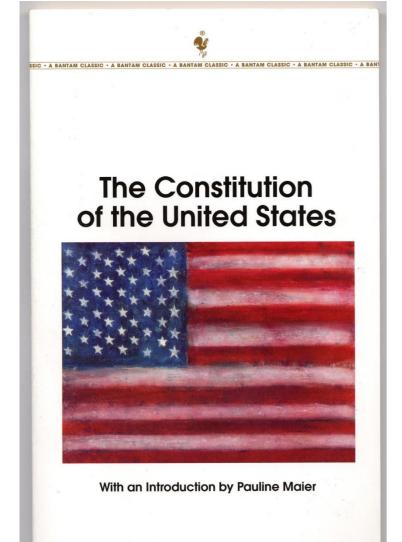
Professor, John F. Kennedy School of Government, Harvard

Marcus Schaper

Visiting Professor, Political Science, Reed College







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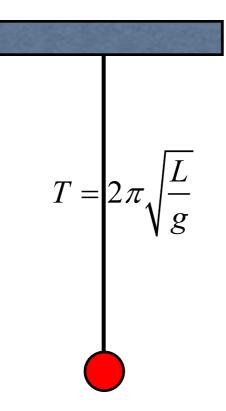
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Market Size and Regulatory Harmonization



2630 BCE



1609 CE

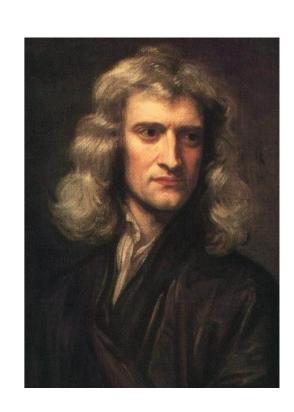
1602 CE

1925

$$ih\frac{\partial\Psi}{\partial t} = -\frac{h^2}{2m}\frac{\partial^2\Psi}{\partial x^2} + V\Psi$$

$$\Box Quantum$$

Heischech, Schristisger, Dirac



$$F = ma$$
 $F = G \frac{Mm}{r^2}$

1687

PHYSICS

Measurements Are the Only Reality, Say Quantum Tests

Hamlet would run a few lines short in a quantum-mechanical theater, where "to be not to be" is not the question at all. The l interpretation of quantum mechanics physical quantity—such as an elecor a photon's polarization direality, or "being," until an asures its value. "To meaire," that is the question. m't sit well with Einstein, nmeasured quantities must ite state, even though we hat that state is. And Eines so much common sense," r of the University of n now, some physicists pin their hopes on the ut experimental contras attempt to inject comantum mechanics. But two are coming closer than ever ing that quantum "reality" is zarre as Einstein feared.

periment, led by Leonard Mandel niversity of Rochester in New York, provided the most intuitively direct test et of the "local realism" hypothesis put forth Einstein, Boris Podolsky, and Nathan Rosen 'R) in 1935. Einstein and his colleagues d that physical quantities whose value predicted with certainty before they

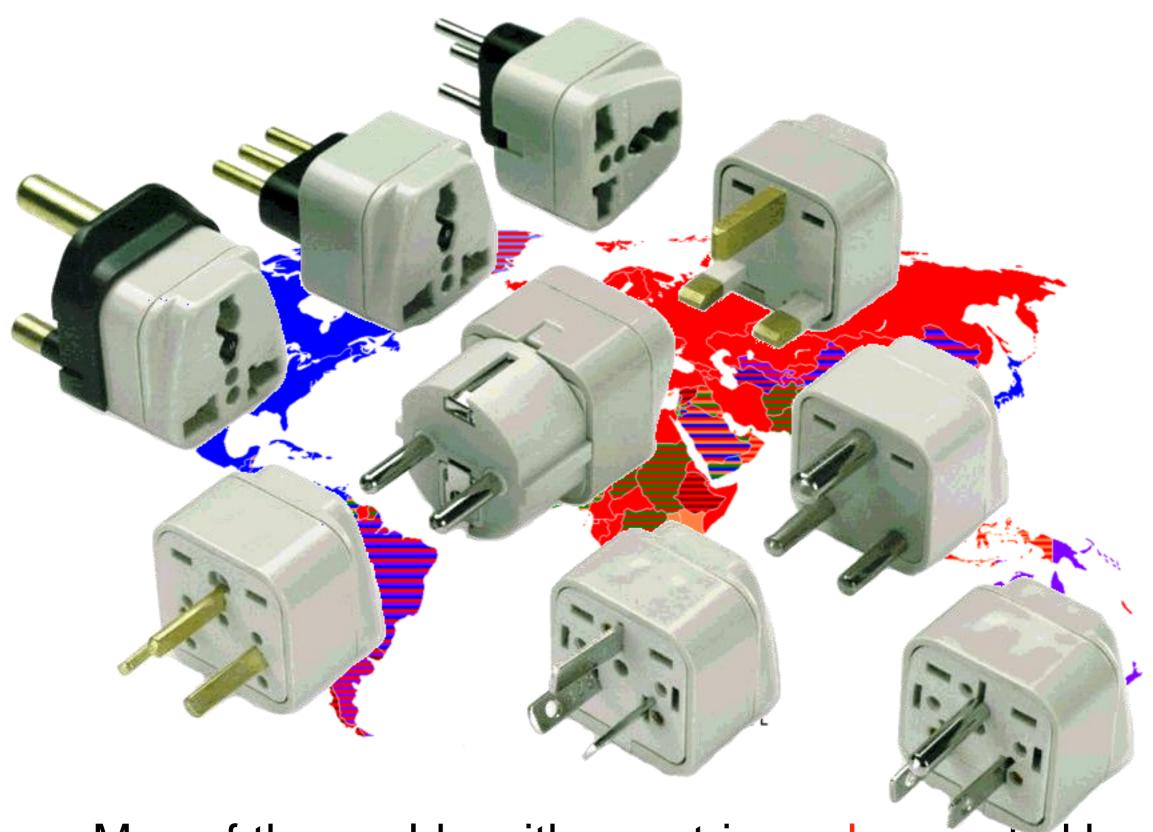


Quantum interrogator. Rochester's David Branning at a laser table used to probe the nature of quantum reality.

planned experiments, designed to build on the new results, could soon close the loopholes once and for all.

These disagreements over the nature of existence date back to the titanic debates between Einstein and physicist Niels Bohr in the 1930s. By then, the majority school of thought, led by Bohr, had concluded that

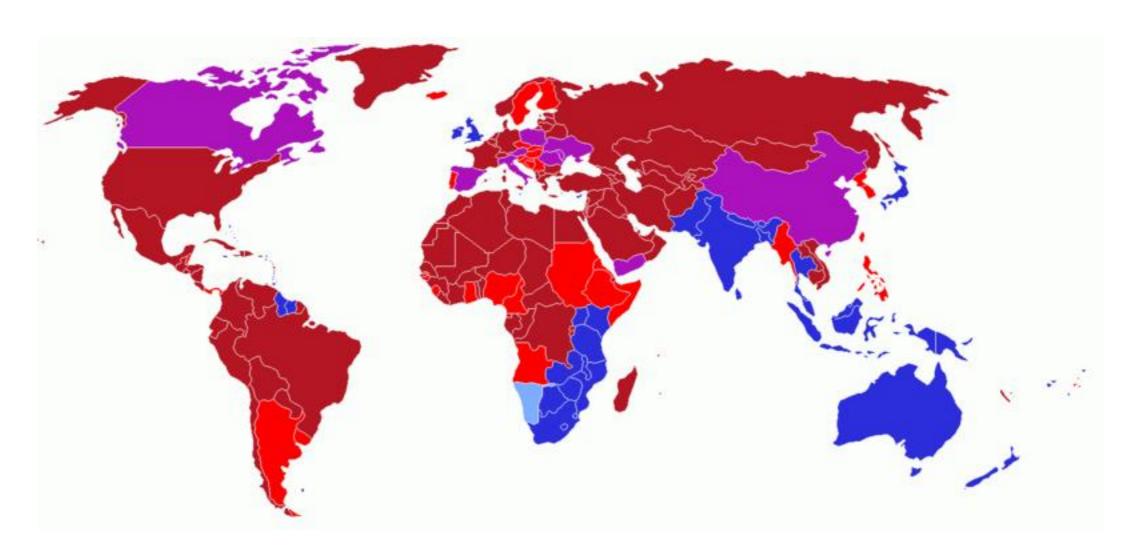




Map of the world - with countries colour coded by electrical plug type they use.



Map of the countries of the world - colored by the nominal voltage and frequency they use



This map s drives on.

Dark blue: d Light blue: t (Namibia). Purple: use

right. Light red: u: Dark red: di



ad traffic

ex-colonies). n left

v drives on

ight.





Sountries that do not use the International Metric

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