

Feb Mach Physical Sciences 2014

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January–March 2022 in science 1918) This article lists a number of significant events in science that have occurred in the first quarter of 2022. 1939) 27 March – Martin Pope, American physical scientist (b. Chinese Academy of Sciences (b. 1921) 23 March – Arthur Riggs, American geneticist (b bfe133ed5f

$$S=k_{\rm {B}}\ln \Omega$$
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List of atheists in science and technology A statement by a living person that he or she does not believe in God is not a sufficient criterion for inclusion in this list. Persons in this list are people (living or not) who both have publicly identified themselves as atheists and whose atheism is relevant to their notable activities or public life. (2007). Both This is a list of atheists in science and technology. ISBN 978-0-549-12973-8. p. Between Soul

and Precision: Ernst Mach's Biological Empiricism and the Social Democratic Philosophy of Science. 94 bfe133ed5f

Ludwig Boltzmann but almost all German philosophers and many scientists like Ernst Mach and the physical chemist Wilhelm Ostwald disbelieved their existence. Boltzmann had Ludwig Eduard Boltzmann (BAWLTS-mahn or BOHLTS-muhn; German: ['lu:tvɪç 'e:duəʁt 'bɔltsman]; 20 February 1844 – 5 September 1906) was an Austrian mathematician and theoretical physicist. His greatest achievements were the development of statistical mechanics and the statistical explanation of the second law of thermodynamics. In 1877 he provided the current definition of entropy, bfe133ed5f

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Anthropic principle Proponents of the anthropic principle argue that it explains why the universe has the age and the fundamental physical constants necessary to accommodate intelligent life. Bibcode:1961Natur. ISSN 0004-8402. Dicke, R. 440D. H. Anthropic reasoning has been used to address the question as to why certain measured physical constants take the values that they

do, rather than some other arbitrary values, and to. (1961). "Dirac's cosmology and Mach's principle". 1080/00048409412346161. 192. If either had been significantly different, no one would have been around to make observations. 192 (4801): 440-441. Nature. doi:10 In cosmology and philosophy of science, the anthropic principle, also known as the observation selection effect, is the proposition that the range of possible observations that could be made about the universe is limited by the fact that observations are only possible in the type of universe that is capable of developing observers in the first place bfe133ed5f

S bfe133ed5f Although the positivist approach has been a recurrent theme in the history of Western thought, modern positivism was first articulated in the early 19th century by Auguste Comte. His school of sociological positivism holds that society, like the physical world, operates according to scientific laws. After Comte, positivist schools arose in logic, psychology, economics, historiography, and other fields of thought. Generally, positivists attempted to introduce scientific methods to their... bfe133ed5f

Superdeterminism J. S. This makes it possible to construct a local hidden-variable theory that reproduces the predictions of quantum mechanics, for which a few toy models have been proposed. Reprinted as Chapter 12 of J. By postulating that all systems being measured are correlated with the choices of which measurements to make on them, the assumptions of the theorem are no longer fulfilled. A hidden variables theory which is superdeterministic can thus fulfill Bell's notion of local causality and still violate the inequalities derived from Bell's theorem. S. 1977. In addition to being deterministic, superdeterministic models also postulate correlations between the state that is measured and the measurement setting. Bell, Free variables and local causality, Epistemological Letters, Feb. Bell, Speakable and Unsayable in In quantum mechanics, superdeterminism is a loophole in Bell's theorem bfe133ed5f

, where Ω is the number of microstates whose energy equals the system's energy, interpreted as a measure of the statistical disorder of a system. Max Planck named the constant k_B the Boltzmann constant... bfe133ed5f

Relativity priority dispute At issue is the extent to which Einstein and various other individuals should be credited for the formulation of these theories, based on priority considerations. Subsequently, claims have been put forward about both theories, asserting that they were formulated, either wholly or in part, by others before Einstein. Subsequently, claims have been put forward about Albert Einstein presented the theories of special relativity and general relativity in publications that either contained no formal references to previous literature, or referred only to a small number of his predecessors for fundamental results on which he based his theories, most notably to the work of Henri Poincaré and Hendrik Lorentz for special relativity, and to the work of David Hilbert, Carl F. Gauss, Bernhard Riemann, and Ernst Mach for general relativity. Gauss, Bernhard Riemann, and Ernst Mach for general relativity. to the work of David Hilbert, Carl F bfe133ed5f

Sulfate Sulfates are salts of sulfuric acid and many are prepared from that acid. ; Sugiyama, Masahiro; van Aalst, Maarten; Bala, Govindasamy; Mach, Katharine J. Seneviratne, Sonia I. Salts, acid derivatives, and peroxides of sulfate are widely used in

industry. ; Ginzburg, Veronika; de Coninck, Heleen; Patt, Anthony (2021) The sulfate or sulphate ion is a polyatomic anion with the empirical formula SO_4^{2-} . Sulfates occur widely in everyday life bfe133ed5f

Jet fuel It is colorless to straw-colored in appearance. The only other jet fuel commonly used in civilian turbine-engine powered aviation is Jet B, which is used for its enhanced cold-weather performance. The most commonly used fuels for commercial aviation are Jet A and Jet A-1, which are produced to a standardized international specification. It was similar to JP-5 but with a lower freezing point and improved thermal Jet fuel or aviation turbine fuel (ATF, also abbreviated avtur) is a type of aviation fuel designed for use in aircraft powered by gas-turbine engines. engines used in the North American XB-70 Valkyrie for sustained flight at Mach 3 bfe133ed5f

= bfe133ed5f Jet fuel is a mixture of a variety of hydrocarbons. Because the exact composition of jet fuel varies widely based on petroleum source, it is impossible to define jet fuel as a ratio of specific hydrocarbons. Jet fuel is therefore defined as a performance specification rather than a chemical

compound. Furthermore... bfe133ed5f
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Positivism For him, the physical sciences had necessarily to arrive first, before Positivism is a philosophical school that holds that all genuine knowledge is either true by definition or positive - meaning a posteriori facts derived by reason and logic from sensory experience. Other ways of knowing, such as intuition, introspection, or religious faith, are rejected or considered meaningless. be regarded as the first philosopher of science in the modern sense of the term bfe133ed5f

List of vehicle speed records As with many world records, there may be some dispute over the criteria for a record-setting event, the authority of the organization certifying the record, and the actual speed achieved. fastest commercial aircraft Rolls-Royce ACCEL, the fastest electric aircraft Mach number depends on ambient temperature, and thus altitude, as well as speed; The following is a list of speed records for various types of vehicles. This list only presents the single greatest speed achieved in each broad record category; for more information on records under variations of test conditions, see the specific article for each record

category bfe133ed5f

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