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In this issue

Research Article

Open Access Research Article PTZAID:AMP-5-140

Dualistic relativity: Unification of Einstein’s Special Relativity and de Broglie’s Matter–Wave Theory

Published On: June 18, 2022 | Pages: 055 - 067

Author(s): Xiaogang Ruan*

In Hawking’s view physics has been broken up into many partial theories, while the ultimate goal of physicists is to unify them. The two basic theories of 20th-century physics, relativity theory and quantum theory, are based on completely different logical prerequisites and exactly separate: matter is described as particles in relativity theory and as waves in quantum ...

Abstract View Full Article View DOI: 10.17352/amp.000040

Open Access Research Article PTZAID:AMP-5-139

Modeling and analysis of the Haldane genetic model under Brownian motion using stochastic differential equation

Published On: May 30, 2022 | Pages: 042 - 054

Author(s): Farshad Fattahi*

Heterozygote advantage as a natural consequence of adaptation in diploid organisms is an attractive mechanism by which two alleles are maintained in natural populations. It has significant effects on biodiversity conservation and plant and animal breeding programs. The mathematical modeling of this biological mechanism is important for eco-evolutionary dynamics studie ...

Abstract View Full Article View DOI: 10.17352/amp.000039

Open Access Research Article PTZAID:AMP-5-138

Research of superluminal phenomena revealed the essence and limitation of the relativity

Published On: May 20, 2022 | Pages: 036 - 041

Author(s): Huaan Zhang* and Zihua Zhang

Superluminal phenomena have been viewed as a contradiction to the Special Relativity, the in-variance principle of light velocity. This paper proposed the theory of the two kinds of epistemology and world, to explain the contradiction between the Special Relativity (SR) and Superluminal phenomena. It also discussed the influence of superluminal research on other scien ...

Abstract View Full Article View DOI: 10.17352/amp.000038

Open Access Research Article PTZAID:AMP-5-137

The spiral wave trajectory motion of particles is the only reason for the establishment of the Poincare regression theorem (Background radiation is not evidence of the big bang of the cosmic singularity)

Published On: May 12, 2022 | Pages: 029 - 035

Author(s): Xie Ling*

In short, an isolated and limited system will return to a state very close to the initial state in the long-term evolution process. For example, in a container, gas particles rotate in chaos and return to their initial position after a period of time. I have proved that everything is a spiral wave track (path) and has the property of wave: v = F ; = uT. It is proved ...

Abstract View Full Article View DOI: 10.17352/amp.000037

Open Access Research Article PTZAID:AMP-5-132

Logic proves that time does not get faster or slower (the universe is not produced by the singularity big bang)

Published On: March 16, 2022 | Pages: 005 - 008

Author(s): Xie Ling*

I use the axiom that equal conditions must have the same result. Axiom proves that no matter how the velocity of an object changes, the time of all objects remains unchanged and unified. Time can be expressed as an eternal constant. Time belongs to the abstract concept of material attributes, and time is not a material concept. There is an abstract concept of un ...

Abstract View | Full Article View | DOI: 10.17352/amp.000032

Open Access Research Article PTZAID:AMP-5-131

Drag force through gases and plasma

Published On: January 25, 2022 | Pages: 001 - 004

Author(s): M Apostol*

The drag force in a gas (previously derived by Stokes and Rayleigh) is derived by means of the molecular kinetics (transport equation of the momentum). Two regimes of resistance to motion are identified, governed by the relation of the velocity to the thermal (molecular) velocity. They correspond to the molecular movement, for small velocities, or to the hydrodynamic ...

Abstract View | Full Article View | DOI: 10.17352/amp.000031

Review Article

Open Access Review Article PTZAID:AMP-5-141

A Poisson “Half-Summation” Formula

Published On: June 25, 2022 | Pages: 068 - 073

Author(s): R Rosenfelder*

A generalization of Poisson’s summation formula is derived – in a non-rigorous way – allowing evaluation of sums from 1 (or any finite integer) instead of the usual range -+. This is achieved in two ways, either by introducing a converging factor in a geometric series of exponential functions and letting it approach zero in a controlled way or by applying a Hilber ...

Abstract View | Full Article View | DOI: 10.17352/amp.000041

Open Access Review Article PTZAID:AMP-5-136

Children explore to understand the physical world Research and practice in Early

Childhood Education

Published On: May 12, 2022 | Pages: 021 - 028

Author(s): Azra Moeed* and Sankari Saha

All children are inquisitive and begin to make sense of the physical and natural world around them from the time they are born. Children use their senses to explore the surrounding environment. Early Childhood Centres (ECE) in New Zealand provide care and learning opportunities for children under the age of 5-years. Te Whriki, our mandated curriculum guides teachers. ...

Abstract View Full Article View DOI: 10.17352/amp.000036

Open Access Review Article PTZAID:AMP-5-135

Proof of Einstein’s postulates

Published On: April 28, 2022 | Pages: 013 - 020

Author(s): BG Golovkin*

Based on the assumption that the experiment confirms the STR, it is shown that the value of the speed of light is a very slowly decreasing function of its frequency, so that at a frequency of 2.2989.10-18 S-1, the speed of light becomes zero. Such light represents resting particles – photonics that could serve as the Absolute Reference System, but due to their negligi ...

Abstract View Full Article View DOI: 10.17352/amp.000035

Short Communication

Open Access Short Communication PTZAID:AMP-5-134

On the shape and fate of our Universe

Published On: March 25, 2022 | Pages: 011 - 012

Author(s): S Kalimuthu*

Einstein’s special and general theories of relativity revolutionized physics and cosmology. Newton assumed four identities namely mass, energy, space, and time. He told that space is absolute. Einstein modified and refined Newtonian concepts s by postulating that mass-energy and space-time. This enabled Einstein to find special relativity theory which predicted the va ...

Abstract View Full Article View DOI: 10.17352/amp.000034

Open Access Short Communication PTZAID:AMP-5-133

On Algebra, Cosmic Triangles and the shape of our Universe

Published On: March 25, 2022 | Pages: 009 - 010

Author(s): S Kalimuthu*

The curvature parameter k and the density parameter omega play the dominant phenomena determining the fate of our universe. According to these two scales, the geometry of the universe has three possibilities namely, flat, open, or closed. The flat and open universe will have continual expansion. But the closed universe will turn around and collapse. If k is zero, the ...

Abstract View Full Article View DOI: 10.17352/amp.000033