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Gravity until equipartition of relativistic kinetic energies.

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We discuss nonempty space physics of material fields in the 1938 interpretation of Einstein and Infeld. The extended carrier of radial energies contains chaotic motions of material densities associated to the rest mass-energy or internal relativistic heat. Chaotic (internal) and ordered (translation) kinetic energies tend to equal values under the free gravitational fall. This universal tendency of any falling body to equipartition of its relativistic kinetic energies can shed a new light on the cyclic geodetic motion and on the periodic evolution of multi-body systems.

Thermal radiation/absorption can vary geodesic paths of free bodies. Einstein's relativistic dynamics of full energies incorporates variable heat of real thermodynamic bodies even at low speeds. The Newton model of masses without temperature cannot be a true nonrelativistic limit for SR/GR references. We explain quantitatively why "Einstein's theory can be accepted only with the recognition that Newton's was wrong." (S. Kuhn. The Structure of Scientific Revolutions, 1962, p.98).

Topic:

Topic: Cosmology, Astrophysics, Gravity, Mathematical Physics

Summary

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