

1. Through the development of his General Relativity Theory Einstein discovered a relationship between the *rate* at which time flows and the *manner* in which space is characterised: time passes more slowly when the force of a gravitational field, that is, the curvature of space-time, is greater. I propose that we seek to obtain something similar using the concept of *temperature*.
2. In my view, this may be understood by reference to Einstein's theory, as compared with the traditional (statistical) approach. For this to hold, we must be able to state: just as $t^*=f_1(d)$ in the General Theory of Relativity, so also $T=f_2(d)$ for the theory to be expounded, where T is temperature, t^* the velocity of the passage of time and d is length.
3. We must therefore characterise processes of diffusion of heat in order to make them compatible with a thermodynamic *interpretation* of the Theory of General Relativity. In order to do this, we must seek a *system of equivalences* between thermal aspects and pliable aspects of reality by elucidating the *meaning* of the above-mentioned relationship between temperature and the passage of time in the Theory of Relativity.
4. Here we have two *clocks* that need to be *standardised*: processes of diffusion of heat and so-called gravitational processes (the trajectories of bodies in motion in a field of gravity) represent the passage of time in two distinct ways. The *criterion* that enables their comparison – through the clarification of the equivalence posited – enables us to understand time as the *unifying bridge* linking the two theoretical frameworks of Physics.
5. *Thermometers* and *rulers*, *diffusion of heat* and *trajectories of bodies in motion*, *thermal energy* and *kinetic energy*, etc. characterise in a range of ways the object that Physics seeks to describe using the heuristic principle – the method – that lies in its origin. "Time" is, as mentioned above, the name that may be assigned to the *problem* that must be solved in order to establish a degree of coherence in Physics.
6. In order to establish the above relationship between T and t^* , that is, between $f_2(d)$ and $f_1(d)$, we propose to define T as previously stated, on the basis of the value of a constant $K_n = Td^2$, to be determined. Thus, it follows that: $T = f_0(t^*) = f_0[f_1(d)] = f_2(d) = K_n/d^2$. But we have also seen that the constant $K_n = Td^2$ enables the following equation to be formulated: $S \cdot M \cdot K_n = H^2$, where S is *entropy*, M is *mass* and H is *action*.
7. Using the Boltzman formula for entropy, we obtain: $K_n (k \log \Omega) M = H^2$, which gives: $\log \Omega = H^2 / M K_n k$. If we replace H with Einstein's formula for action, we are able to establish, by this means, a method for *quantifying space-time*, which also means for us: a method for the *geometrisation of heat diffusion processes*.
8. If $K_n = Td^2 = Td^3/d = K/d$, where $K = (G/k)(h/c)^2$, with h expressing an action and G , k and c being the other three fundamental constants of Physics. If we consider that G can be expressed as $G = c^2 (d_0/m_0)$, it follows that $\log \Omega = H^2(d_0/m_0) (1/Kk)$, for $d = d_0$ and $M = m_0$, of known quotient $d_0/m_0 = G/c^2$. And, for $\log \Omega = 1$, we obtain $H^2 = h^2$. That is: h , Planck's constant, can be understood as the *lower limit* of Einstein's action, its smallest part. Thus, in *Quantum Mechanics* we have an expression for the unification of the different branches of Physics, which, when rendered explicit, displays a degree of fundamental simplicity.