

Is the energy of Universe above the zero?!

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Abstract

Dust-cloud collapse gives in Møller's formula the $E = 0$ as energy. Therefore, if such cloud flies towards a wall, the thermal energy won't be released after the impact. But warm must be (cloud of machine gun bullets).

Dust-cloud collapse gives in Møller's formula the $E = 0$ as energy. Therefore, if such cloud flies towards a wall, the thermal energy won't be released after the impact. But warm must be (cloud of machine gun bullets). Therefore, the E in formula is not energy but some conserving mathematical object. One can study the case by transformation into the non-comoving system: $X = x - vt$, and find the Møller's E . If it is zero, then we have major discovery: the "wiseman" Hawking is wrong saying, what the energy of Universe is zero.

Let us see. The Møller formula reads

$$E = \int f(x + vt, y, z) dx dy dz.$$

Then the Taylor expansion at low velocity gives

$$E \approx \int f_0(x, y, z) dx dy dz + vt \int f_1(x, y, z) dx dy dz = A + Bt \neq const,$$

unless the all $A = B = 0$. Thus, the $E = 0$.