

Møller formula fails the experimental test

Dmitri Martila

eestidima@gmail.com

Estonian Physical Society

Lääne 9-51, Tartu 50605, Estonia

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Abstract

Thank You! This formula is believed to be energy good formula. But we forgot old fashion experiments, how mankind has measured calories in calorimeters to build the Structure of Science-philosophy. I propose to future advance humankind (after Second Coming) to put a cosmic structure into calorimeter! This rough, "rude" way will certainly give the answers to energy problem in General Relativity (GR). One of mind torturing difficulties is hypothesized non-locality of energy [R.J.Epp, Phys.Rev.D, 62, 124018, 2000]. But the GR is local theory. Thus, the formulas are out of GR.

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The corrected dust ball collapse [1] gives zero energy, according to Møller formula [2]. Also zero we get for Friedmann Universe. But how the real materia can be useless? The zero energy is synonym of uselessness. Suppose rare, almost "classical" dust cloud flies and hits, say, the Wailing Wall (like cloud of machine-gun bullets). Of course, the Wall will radiate away the kinetic energy, which is turned into thermal. This radiation catches the calorimeter, showing non-zero value.

Generally (even in General Relativity), if You have matter A, then You can imagine anti-matter B; so their collision gives annihilation radiation, which we catch by thought-calorimeter. This way we measure the energy of A (perhaps being in motion, with velocity v). Using dust clouds as A and B, we possibly could even say either energy conserves or not. The mentioned doubts about conservation are in begining of Ref.[3].

In conclusion: if there's energy, then the "theoretists" must provide way to get it: to boil an egg for example.

Note, that zero for Universe is not ideologically necessary: the conservation law (if it is there in General Relativity) begins AFTER the World Creation. Before the Creation there is no real matter, no real space and no real time. Thus, the energy of Universe before its Creation is certainly not zero (take that, Hawking! [4]), because there is only virtual (essence from Young Earth Creationism) Universe. You would not say, that mass of Your wife in dining room is zero, because she is in praying room, would You? Your wife does not have a ghost-clone!

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- [1] Trevor W Marshall, Max K Wallis. 2010. Journal of Cosmology 6:1473-84. Available from: <http://journalofcosmology.com/MarshallWallis.pdf>
- [2] Florides PS. 2009. On the Tolman and Møller mass-energy formulae in general relativity. J Phys: Conf Ser. 189:012014.
- [3] Philip Gibbs, "Energy is Conserved in General Relativity", <http://vixra.org/abs/1305.0034>
- [4] Russell Grigg's opinion <http://creation.com/curiosity-did-god-create-the-universe>