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Going from Lord Kelvin's View of God to A Quantum Computer Reducing Entropy

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Abstract

Lord Kelvin believed the universe has a “heat death,” created with only so much energy, having stuck to his Presbyterian beliefs. So, Kelvin believed that only God could create or destroy energy. (1) Then, what follows from that is that any isolated system can never become more orderly. Recently, a quantum chip was invented by GOOGLE that appears to break this law. It does not, but the quantum computer is capable of beating the Carnot efficiency of $\eta = (T_H - T_C) / T_H$, which is for a thermal heat engine where T_H is the Kelvin temperature of the hot source

and T_C is the Kelvin temperature of the cold sink. Today's car engines have Carnot efficiencies of 20% compared to their Carnot efficiency of 37% because of friction and heat loss. Researchers have shown that a non-thermal integrable system can be supplied with waste heat (2) to convert to useful work by energy harvesting. The efficiency of this quantum device has been shown to be higher than what Carnot proved. (2) The work produced can be used to reduce entropy.

Keywords: Lord Kelvin, Quantum Computer, Entropy

Introduction

In GREAT ANT SCOOTER GROUP, Jennings *et al* (3), Andy at the finish line says, “Jesus Christ is going to solve the problem of entropy, which has been death.” Kelvin had this idea that only God could create or destroy energy, but in Yamakazi, *et al* they say that energy can be harvested from waste heat by a non-thermal Tomonaga-Luttinger liquid and can be used to lower entropy. In COLOSSIANS 2:2-3, we read, “the mystery of God - namely Christ – in whom every treasure of wisdom and knowledge is hidden.” We know that Jesus is able to set humanity free from death by asking God the Father to give the universe more energy to reverse the fall of man and forgive all sins.

Results

Yamakazi, *et al* (2) says that man has the possibility of harvesting work from waste heat using a non-thermal reservoir. These reservoirs are quantum heat engines, which conceivably are the precursors of the life to come in that they are the road to perpetual motion. Conceivably Jesus Christ is able to access absolute zero temperature and eliminate death forever and ever. In Figure 2c of Yamazaki, *et al* (2), we see that the efficiency $\eta_{z(avg)}$ of the non-thermal state is about 0.65 and the efficiency of the quazi-thermal state $\eta_{z(avg)}$ is about 0.58. Thus the non-thermal state does better than a car at giving work from waste heat. This outdoes the Carnot efficiency of a car, which is 0.37. The energy produced can be used to reduce entropy. In the mathematics of Stephen Hawking, Frautschi (4) calculated that the heat death of the universe is 10^{106} years. However, Hawking was a total atheist and his assumptions are worked into his mathematics.

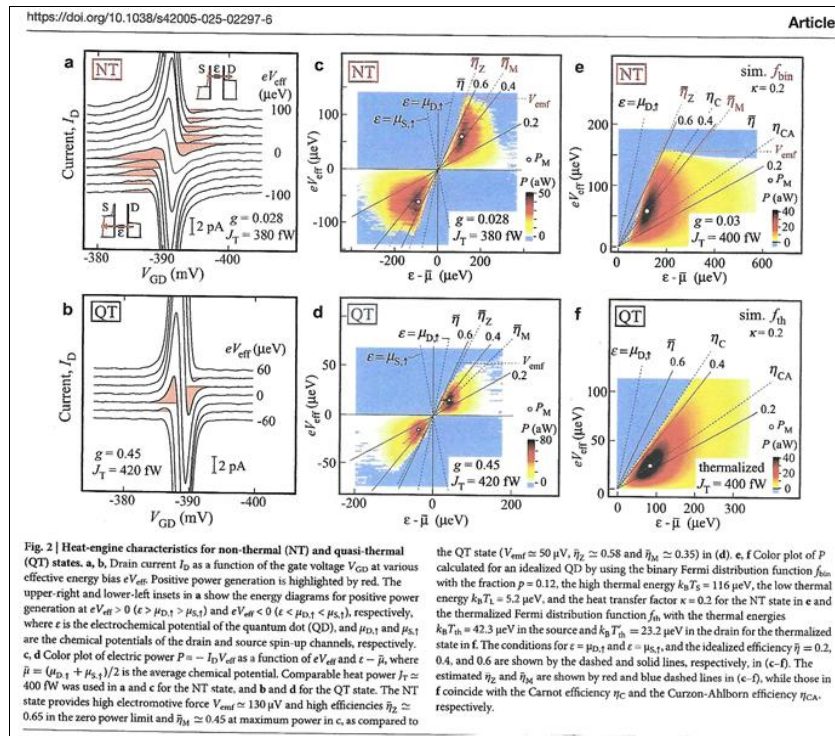


Fig. 2 | Heat-engine characteristics for non-thermal (NT) and quasi-thermal (QT) states. a, b, Drain current I_D as a function of the gate voltage V_{GD} at various effective energy bias eV_{eff} . Positive power generation is highlighted by red. The upper-right and lower-left insets in a show the energy diagrams for positive power generation at $eV_{eff} > 0$ ($\epsilon > \mu_{D,1} > \mu_{S,1}$) and $eV_{eff} < 0$ ($\epsilon < \mu_{D,1} < \mu_{S,1}$), respectively, where ϵ is the electrochemical potential of the quantum dot (QD), and $\mu_{D,1}$ and $\mu_{S,1}$ are the chemical potentials of the drain and source spin-up channels, respectively. c, d Color plot of electric power $P = -I_D V_{eff}$ as a function of eV_{eff} and $e - \bar{\mu}$, where $\bar{\mu} = (\mu_{D,1} + \mu_{S,1})/2$ is the average chemical potential. Comparable heat power $J_T \approx 400$ fW was used in a and c for the NT state, and b and d for the QT state. The NT state provides high electromotive force $V_{eff} \approx 130$ μ V and high efficiencies $\bar{\eta}_Z \approx 0.65$ in the zero power limit and $\bar{\eta}_M \approx 0.45$ at maximum power in c, as compared to

the QT state ($V_{eff} \approx 50$ μ V, $\bar{\eta}_Z \approx 0.58$ and $\bar{\eta}_M \approx 0.35$) in (d). e, f Color plot of P calculated for an idealized QD by using the binary Fermi distribution function f_{bin} with the fraction $p = 0.12$, the high thermal energy $k_B T_h = 116$ μ eV, the low thermal energy $k_B T_c = 5.2$ μ eV, and the heat transfer factor $\kappa = 0.2$ for the NT state in e and the thermalized Fermi distribution function f_{th} with the thermal energies $k_B T_h = 42.3$ μ eV in the source and $k_B T_c = 23.2$ μ eV in the drain for the thermalized state in f. The conditions for $\epsilon = \mu_{D,1}$ and $\epsilon = \mu_{S,1}$ and the idealized efficiency $\bar{\eta} = 0.2$, 0.4, and 0.6 are shown by the dashed and solid lines, respectively, in (c-f). The estimated $\bar{\eta}_Z$ and $\bar{\eta}_M$ are shown by red and blue dashed lines in (c-f), while those in f coincide with the Carnot efficiency η_C and the Curzon-Ahlborn efficiency η_{CA} , respectively.

Discussion

To use the work produced from the Tomonaga-Luttinger liquid (1), we recognize that $dU = TdS = \delta q + \delta w$, where U = energy, T = temperature Kelvin, S = entropy, q = heat and w = work. Increasing U while lowering q (waste heat) means that work w can be done. The Tomonaga-Luttinger liquid is used to produce w from lowering q resulting in raising U . Yamazaki, *et al* have proved this is a case where more work can be generated though a non-thermal state. This does not violate any law of thermodynamics but is more efficient than the thermal Carnot cycle.

Conclusion

Before the author finishes there is going to be a word about the Virgin Mary, in that nothing is done without her notice. "Many shall run to and fro, and knowledge shall be increased." DANIEL 12:4 This is true in the last time.

Acknowledgements

At NEWMAN HALL, Berkeley, California, where I go to Mass, Colleen Lenord leads the 10AM choir on Sundays and plays wonderfully on the piano after we receive the Eucharist. There are also cantors that sing along with the choir. The Messiah will return, who will turn aside for no one.

References

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