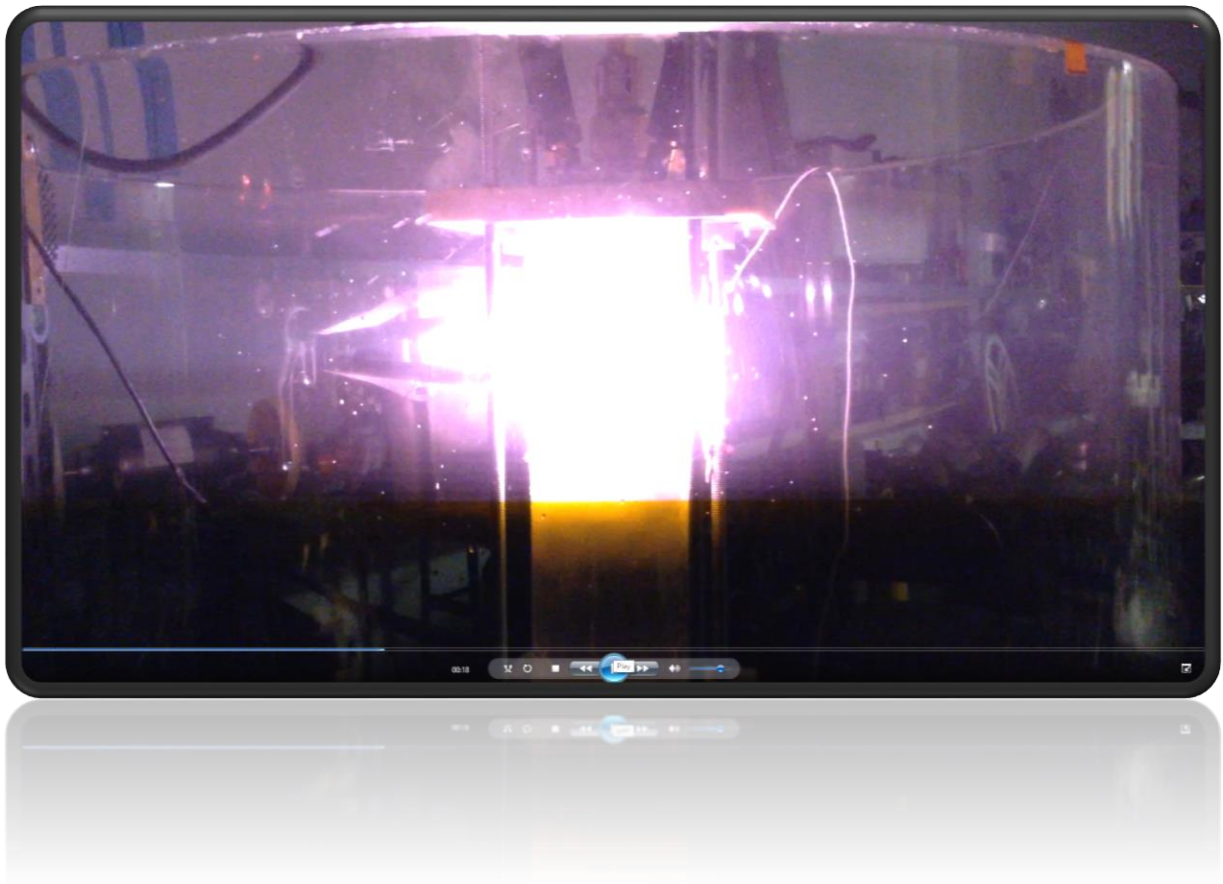




ABSTRACT

THE INTEGRATION OF LENR, SPACETIME, RESONANCE AND
MANGON WAVE PHENOMENON

THE MAGNETIC MILES ENERGY MODEL

MAGNETIC MILES, LLC. | July 8, 2016



MAGNETIC MILES, LLC.
2336 SE Ocean Blvd # 156
Stuart, Florida 34996
772-324-8541

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FORWORD: *Extraordinary claims require extraordinary evidence* – Carl Sagan

With the global focus today, and into the foreseeable future, on minimizing the environmental impact of fossil fuel based energy systems, the scientific community and the industrial energy establishment have been forced to seek alternative sources of and methods to produce clean energy. However, the road to success in these endeavors has been anything but smooth. Even with billions of dollars invested to date, the clean energy technologies in use today, including wind, solar, and hydro, have proven to be expensive to both implement and to maintain, thus limiting the breadth of their adoption along with any realized or foreseeable return-on-investment.

The Internet is teeming with articles claiming the creation of fully sustainable power generation systems that require no fossil fuels. The majority of these claims have been proven unjustifiable. Nonetheless, industry giants are racing to identify and develop economically viable and environmentally benign energy technologies with the recognition that the first corporation to market will achieve an unprecedented advantage. Lockheed Martin (October 2014), for example, announced a technological breakthrough in developing power based on nuclear fusion which will allow them to produce a 100 megawatt nuclear fusion reactor with a 2x3 meter footprint before the end of 2020. Though the scientific community remains

skeptical of these claims and others like them, one must acknowledge the financial and technological capabilities of organizations like Lockheed Martin, along with their desire to be first to market with an economically feasible, reproducible clean energy alternative. One must also recognize that leading industry and academic experts like Dr. Louis DeChairo of the US Naval Research Labs are now openly discussing the likelihood that once debunked theories like LENR, cold fusion, space-time and resonance energy may well be viable, even though they were originally deemed outside the realm of accepted quantum physics.

So why all the skepticism? History. From Tesla to Rossi, from CERN to the Harvard-Smithsonian Center for Astrophysics, acclaimed scientific breakthroughs of monumental importance have been shown to be flawed, or at best non-reproducible. In 1989, Fleischmann and Pons claimed they had achieved nuclear fusion (dubbed cold fusion) in a simple tabletop apparatus. However, after numerous unsuccessful attempts by peers to reproduce their findings, Fleischmann and Pons became known as a textbook case of bad science. Several years later in 2004 at the urging of scientists and researchers, the US Department of Energy established a review panel to consider the viability of cold fusion, then dubbed LENR or low energy nuclear reaction, but quickly concluded that the science was not far enough along to justify a new research program. However, the industrial sector saw it differently and launched a number of research programs to further understand LENR. Those organizations included national laboratories, NASA, Mitsubishi, Lockheed Martin, Boeing and Toyota, with many of the programs funded by the Gates Foundation and others. In short, the focus has undeniably shifted as scientists are now recognizing that what was once thought impossible is, in reality, within our grasp. Like everything else in life, scientific knowledge is always changing. Breakthroughs are not only common, but are now expected. Clean, renewable energy sources that can be commercialized with a reasonable expectation of solid financial returns are at hand.

The scientists at Magnetic Miles are now on the forefront of those breakthroughs as the following will illustrate.

EXECUTIVE OVERVIEW: *In order for energy to remain in equilibrium, there must be equal and opposite forces in place. It is only when those opposing forces become imbalanced that we see phenomenon that defy explanation – M.J. Termini*

Scientific leaders from government, industry and academia have come to the realization that many of the theories of visionaries like Einstein, Tesla, Rossi and others when compared side-by-side illustrate amazing similarities. While the majority of today's recognized scientific experts have coined terms like LENR, spacetime, resonance, magnon wave, and spintronics to explain their findings, the reality is that they are all based upon known scientific facts.

Louis F. DeChiaro, Ph.D., Naval Surface Warfare Center, Dahlgren, VA and Naval Research Labs, Washington, DC has served as a research physicist for the EMC and LENR experimental research programs. In that capacity, Dr. DeChiaro has tracked the scientific progress of LENR and other quantum breakthroughs. In his presentation dated September 23, 2015 entitled Low Energy Nuclear Reactions (LENR) Phenomena and Potential Applications, Dr. DeChiaro identified a series of successful scientific experiments by both industry and academic experts that have demonstrated viable commercial applications for the LENR, spacetime, magnon wave and related theories ranging from NASA's Mars program to LENR fuel cells by LENR Cars, Inc. In short, breakthroughs in multiple applications have become commonplace. The science has been proven. Commercialization is the next stage.

Magnetic Miles (MM), a Florida based entrepreneurial enterprise, has developed, tested, and patented (three issued, three pending) an advanced electromagnetic power generation technology that utilizes elements of each of these quantum sciences to produce repeatable energy output levels that can be utilized for commercial or military applications. Unlike many of the other programs referred to by Dr. DeChiaro in his presentation, the output levels generated by the MM equipment are scalable, reaching levels up to and exceeding 6.541 gigawatts – utilizing standard electromagnetic materials and electrical components configured within an envelope the size of a large suitcase. The MM system is environmentally benign, safe, and fully scalable. Heat generation has been eliminated as the MM equipment self-cools during operation; a unique and highly unusual phenomenon.

The illustration on the following page is an actual screen shot taken from the MM equipment during a typical run. The captured data stream illustrates both high and low power levels taken from probes in various locations along the perimeter of the equipment, as well as periodic power spikes that occur on regular intervals. Input power levels of 240 VDC provide the initial charge of the MM capacitor bank. Thereafter, the MM equipment amplifies the input power to levels exceeding 275,000 volts and 23,750 amps. Utilizing those output levels, the MM equipment, operating on only one of four available stations generates:

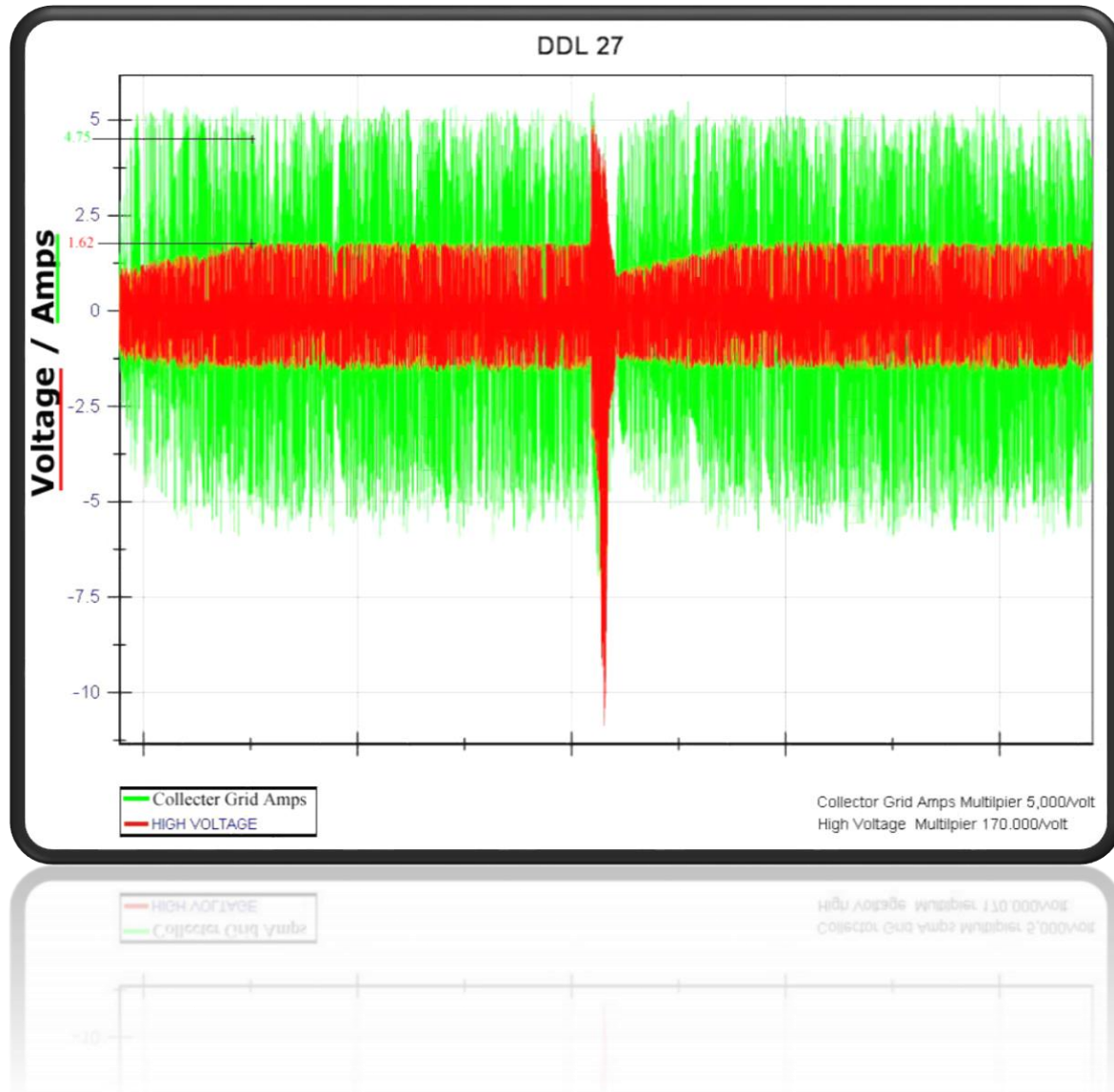
$$P=ExA$$

$$E=1.62 \times 170,000 \text{ (high voltage multiplier)} = 275,400 \text{ volts}$$

$$A=4.75 \times 5,000 \text{ (low voltage multiplier)} = 23,750 \text{ amps}$$

$$P=275,400 \text{ volts} \times 23,750 \text{ amps} = 6,540,750 \text{ watts or } 6.541 \text{ Gigawatts}$$

The MM equipment is currently structured with four power stations, but can be scaled to any number to meet specific application requirements.



INDEPENDENT THIRD PARTY VALIDATION:

As with any scientific undertaking, the importance of independent validation cannot be understated. Because of this, MM has retained the services of Dr. Douglas W. Lindstrom, Director of Alpha Institute of Advanced Studies to evaluate and critique the science developed by the MM scientific staff. Dr. Lindstrom's comments and observations follow:

"In summary, the following were observed or concluded:

- The electromagnetic energy generated by the MM apparatus behaves in a manner that is not described by classical theory, but is similar to the radiant energy discussed by Nicola Tesla approximately a century ago.
- Kirchoff's current law, voltage law, and Ohm's law are seemingly not valid for this apparatus on timescales from microseconds through to seconds. This leads to the strong possibility that the traditional Maxwell version of electromagnetism does not apply to some of the current forms present in the device. Further evaluation of longer test sequences is required for confirmation of this."

Dr. Lindstrom recommended, then evaluated additional experimentation based upon his initial observations with which to further explore and validate his initial conclusions. From those experiments, Dr. Lindstrom concluded:

- Several anomalous behaviors have been observed by the staff at Magnetic Miles LLC. (MM) in the power unit and discharge chamber of their apparatus, some of which seem unexplainable in terms of traditional physics or engineering. For example, the power unit developed by MM exhibits anomalous electromagnetic effects, thermal effects, and possibly nuclear events. In an attempt to harness the surge or "impulse" energy observed in the MM apparatus, a test program was commenced to evaluate the viability of the device for conversion of the impulsive phenomena into something more accepting by today's electrical technology.
- There are many parallels between the current work at MM and that performed by Nicola Tesla more than a hundred years ago. Tesla broke electromagnetism into three distinct types, two of which were conventional and one which was not conventional: conventional direct and alternating current, high frequency alternating current, and compressive electromagnetics or radiant energy. These same three energy types are observable from the MM apparatus.
- The tests conducted on the MM apparatus suggest that theoretical explanations for the anomalous behavior reported both by Tesla and Magnetic Miles, exist outside the realm of traditional or classical theories.
- It is the author's opinion that the following is occurring. The machine accomplishes a pumping of charge from ground connected to point D on the test frame through to the ground connection of the Faraday cage. In the case where point D is not connected to a physical ground, this connection is through the electric field surrounding the plate possibly creating a capacitive action between it and the ground, perhaps supplemented by discharge leakage from sharp edges, etc, on the test apparatus. This charge redistributes itself on the test frame through adjustment of the potentials on the plate, to maintain a quasi-static equilibrium.

- The phenomenon observed is better perhaps viewed by considering positive vacancies rather than negative charges on the test frame. In this viewpoint, the vacancies are forced towards the point of lowest potential, the ground connection at D. If the vacancies can't exit the test frame to ground fast enough, a concentration of vacancies builds up and the potential at the grounding point increases as a result. This is verified by the data for the instantaneous potential values, but not substantiated by the one second averages, indicating that perhaps the averaging techniques disguises some of the physics happening on the test frame. The averaging of potential is misleading because it implies that the changes of potential in time are insignificant. This is definitely not the case in this apparatus.
- A framework or theory that can handle such large changes in both potential and current generated by the MM apparatus is required to understand the phenomena better. Older stand-by techniques such as Kirchoff's laws, and perhaps even the fundamental Maxwellian field equations, will likely require modification to be valid in this type of situation.

The complete copy of the analysis conducted by Dr. Lindstrom is available upon request after the execution of a nondisclosure agreement. Subsequent analysis is currently ongoing by Dr. Lindstrom and the MM staff to further define and refine the capabilities and scope of the MM apparatus and associated technology.

CONCLUSIONS:

Through the work of the MM staff and subsequent validation by Dr. Lindstrom, a unique clean energy source has been developed, tested, validated and patented. The MM apparatus is capable of generating output levels exceeding 2,000,000 volts at 160,000 amps from a single station. The apparatus is scalable and easily replicated utilizing existing materials and electrical components. It is transportable, generates no heat signature, and is capable of providing continuous high-level energy pulses.

Much like the work of Tesla, the MM apparatus generates multiple forms of energy – both traditional and non-traditional. The MM staff has successfully developed capture devices capable of proving the viability of use of the energy in traditional devices. However, much more work is needed to expand the capabilities of said devices. To do so, the availability of additional funding, advanced resources and facilities will be necessary. Dr. Lindstrom projects that with said resources, those capture/use systems can be developed and deployed within two to three years, thus generating a significant return-on-investment for Magnetic Miles and our partners.

PROJECT STATUS:

The MM project is now through the proof-of-science stage with a fully operational prototype system that is documented and patented. As previously mentioned, commercialization is expected to take less than three years according to Dr. Douglas Lindstrom, Director of AIAS who has independently validated the technology.

The MM technology is owned by the company shareholders and is debt free.

The Company is now seeking an equity partner with the capacity and resources to commercialization the technology. Alternatively, the Company will entertain purchase offers from qualified parties for the global rights to the technology. Inquiries, technical questions or requests for a demonstration should be directed to Charles Heath, CEO at 772-286-5669.

REFERENCES:

The following references were drawn from Dr. Lindstrom's white paper on the MM project:

- Devon Meyers, Magnetic Miles LLC., Stuart, Florida
- Nicola Tesla, US Patent 1119732, "Apparatus for Transmitting Electrical Energy"
- Nicola Tesla, US Patent 685957, "Apparatus for the Utilization of Radiant Energy"
- Nicola Tesla, US Patent 685958, "Method of Utilizing Radiant Energy"
- Nicola Tesla, US Patent 685838, "Method of Insulating Electrical Conductors"
- Nicola Tesla, US Patent 787412, "Art of Transmitting Electrical Energy Through the Natural Mediums"
- Nicola Tesla, US Patent 685012, "Method for Increasing the Intensity of Electrical Oscillations"
- Nicola Tesla, US Patent 685955, "Apparatus for Utilizing Effects Transmitted from a Distance"
- Nicola Tesla US Patent 695954, "Method of Utilizing Effects Transmitted Through Natural Media"
- Nicola Tesla US Patent 685953, "Method of Intensifying and Utilizing Effects Transmitted Through a Natural Media"
- Nicola Tesla US Patent 649621, "Apparatus for Transmission of Electrical Energy"
- Nicola Tesla US Patent 645576 "System of Transmission of Electrical Energy"

- Nicola Tesla “On Light and Other High Frequency Phenomena”, Delivered before the Franklin Institute, Philadelphia, February 1893, and before the National Electric Light Association, St. Louis, March 1893
- Nicola Tesla, “ON THE DISSIPATION OF THE ELECTRICAL ENERGY OF THE HERTZ RESONATOR”, THE Electrical Engineer, VOL. XIV., DECEMBER 21, 1892.no. 242
- D. Lindstrom, H. Eckardt, “Reduction of the ECE theory of electromagnetism to the Maxwell-Heaviside Theory”, Part I, Journal of Foundations of Physics and Chemistry, vol 1, (1), 2011
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- H. Eckardt, “Interaction of Electrostatics with the ECE Vacuum”, UFT 299, WWW.AIAS.US
- P. Lindemann, “Cold Electricity”, Borderland Publishing,
- Mathematica 10.4, Wolfram Research, Inc., Mathematica, Version 10.4, Champaign, IL (2016).

The following comments were cited from Dr. DeChiaro’s September 23, 2015 presentation discussing the current status of LENR research activities:

- LENR reactions appear to be real and are likely attributable to something like nuclear fusion.
- The presence of lattice profoundly affects test results though little prompt radiation.
- Multiple labs observed excess heat, elemental transmutations, soft X-ray emissions, He generation commensurate with heat, tritium production, occasional MeV neutron emission, and RF emission in the HF and mm wave bands.
- SPAWAR, & JWK Internat, and others all observed 100% repeatability.
- Rossi Hotcat tested by third party academic group; 15,000,000 watt-hours excess thermal energy over 32-day continuous run.
- Hotcat has been duplicated by Profs A. Parkhomov (Moscow) and Jiang (PRC).
- Commercial products (1 MW plant) now being tested at customer location.
- E-cats in 1 MW plant were still running on initial fuel charge at 4 months, COP varies between 20 and 80 in self-sustain mode.
- Multiple entrepreneurs now developing products for market.

- Ten LENR patents actually granted worldwide during past five years; 5 by USPTO.
- Plans exist to build LENR propulsion systems into vehicles for sale to public.
- NASA plans to use LENR thrusters in deep-space probes.

Dr. Louis DeChiaro: Research Notes of October 6, 2015

<https://meetings.vtools.ieee.org/m/35303>

- As for duplicating the Pons and Fleischmann results, we now have a much better understanding of the phenomenon, and the list of prerequisite conditions is rather lengthy. Failure to meet even one of those conditions results in zero excess energy output.
- Almost none of this material was obvious back in 1989.
- A departure from equilibrium must be established that will permit an external energy source (eg. The DC power supply in an electrolysis experiment and/or a pair of low power lasers as in the Letts/Hagelstein two laser experiment) to feed energy into the H-H or D-D stretching mode vibrations.
- When the curvatures of the parabolic energy wells of the nuclei are modulated at a frequency very near the natural resonant frequency, the quantum expectation value of the nuclear wave function spatial spread will oscillate with time in such a way that the positive-going peaks grow exponentially with time.

Dr. Horst Eckardt: How Do Space Energy Devices Work?

<http://www.aias.us/documents/miscellaneous/SpaceEnergy.pdf>

- Newly developed energy devices seem to acquire energy “from nothing”. Their working mechanism is not explainable through standard physics. Resonances of ambient spacetime are created to transfer energy from spacetime itself to the devices.
- The mechanism is based on a resonant coupling of the device with spacetime itself.
- As we have seen, spin connection resonance was obtained by applying a periodic charge density oscillation. The wavelength has to be comparable to the atomic distances.
- They can be evoked by spin waves in ferromagnetic materials.

Dr. Myron Evans:

http://aias.us/index.php?goto=showPageByTitle&pageTitle=Myron_Evans

- It is generally accepted that the standard model of physics is obsolete and contains fundamental errors due to its arbitrary neglect of torsion.
- Torsion is of central importance.

- The ECE development of most interest industrially is spin connection resonance, which is based on the fact that the appearance of the spin in the field equations of ECE theory give a Euler Bernoulli resonance structure without violation of any conservation law of physics.

ACTIVE PROJECTS IN ADVANCED CLEAN ENERGY - 2016:

- Magnetic Miles, LLC. – Electromagnetic Power Generation
- NASA – Mars Program
- Mizuno – Transmutations & Isotope Anomalies
- NAVSEA – Excess Thermal Energy vs He
- Nanortech, Inc. - Swartz
- Brillouin Energy, Inc. - Godes
- LENR Cars, Inc. - Chauvin
- Lattice Energy, Inc. – Larsen
- Lenuco, Inc. – Miley
- Nichenergy, Inc. – Piantelli
- Hope Cell Technologies – Vancina
- Lightstone Technologies
- Defkalion Green Technologies
- Industrial Heat – Rossi
- LENR reactor – Perkhomov

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