



Foundations of Physics Letters. If there is such an effect, it may be exploited to develop a new method of space propulsion. In any case, the research will add to the understanding of how inertia is tied to the surrounding matter of the universe.

(2) Jordan Maclay (Quantum Fields LLC, Richland Center, WI) and MEMS Optical Inc. (Huntsville, AL) proposed an experimental and theoretical study of quantum vacuum energy. The experiments will use micro-electromechanical devices to test force and energy effects predicted by quantum electrodynamics.

(3) Harry Ringermacher (General Electric Corporate Research and Development, Schenectady, NY) with the collaboration of researchers from Washington University, St. Louis, MO, and United Technologies Research Center, East Hartford, CT, proposed a magnetic resonance experiment to test a theory linking electromagnetism, mass, and time. Ringermacher originally published the theory in 1994, in the journal Classical and Quantum Gravity.

(4) Glen Robertson and Ron Litchford (NASA Marshall Space Flight Center, Huntsville, AL) proposed an experimental study of possible links between superconductors and gravity as recently discussed in several scientific journals. They plan to use a torsion balance, similar to those used to search for material-dependant gravitational effects, to search for superconductor-gravity effects.

(5) Kevin Malloy (University of New Mexico, Albuquerque, NM) and Raymond Chiao (University of California at Berkeley, Berkeley, CA) proposed experiments and theoretical work on "superluminal quantum tunneling," an effect where light appears to pass through barriers faster than it travels through normal space. The proposed research will critically examine some of the faster-than-light hypotheses associated with this effect.

(6) Serguei Krasnikov (Altamonte Springs, FL) proposed to theoretically assess the necessity of "negative energy" suggested in recent scientific literature on hyperfast travel. The possibilities for enabling hyperfast travel is more feasible if negative energy is not required.

The Glenn Breakthrough Propulsion Physics program is part of a continuing effort to provide the scientific advancements necessary for future propulsion technology. It is funded by the Advanced Space Transportation Program, managed by NASA Marshall Space Flight Center, Huntsville, AL, and the Advanced Concepts Program of the NASA Office of Space Science, Washington, DC.

Summaries of the proposals are available at:

[http://www.grc.nasa.gov/WWW/PAO/pressrel/99\\_66addm.htm](http://www.grc.nasa.gov/WWW/PAO/pressrel/99_66addm.htm)

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