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## Gravitomagnetic Field Generation using High Permittivity Materials in SMES Devices

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A method is described for creating a measurable unbalanced gravitational acceleration using a gravitomagnetic field surrounding a superconducting toroid as described by Forward (1962). An experimental Superconducting Magnetic Energy Storage (SMES) toroid configuration of wound superconducting nanowire is proposed to create a measurable acceleration field along the axis of symmetry, providing experimental confirmation of the additive nature of a Lense-Thirring derived gravitomagnetic field. In the present paper gravitational coupling enhancement of this effect is explored using high permittivity material, as predicted by Sarfatti (2020) in his modification to Einstein's General Relativity Field Equations for gravitational coupling in matter.

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