

# A Possible Mechanism For Gravity Without Forces Acting at a Distance

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Don't get ahead of me or yourself

Electrodynamic Divergence of Matter

This paper and this thread is not an attempt to formalize the model, but more to lay the groundwork and provide some information about the subject model to those capable and inclined enough to attempt formalization.

Starting with the least possible consideration, two spheres of equal size and constant density large enough to have some measurable amount of outward surface acceleration, first just touching each other in free space; The expansion can be considered to result from the same close range internal forces as in gases, but controlled in solids and liquids by the inertial resistance of the outer parts of larger objects, gas, liquid, or solid.

If all matter expands, the way gases do, this in itself, provides the basis for a model of gravitation to use for thought experiments and possibly for finding unexplored experiments to compare with other models.

Any attempt to separate the two spheres should be resisted by the precise amount the two spheres are being accelerated apart by the expanding surfaces.

Since the surface points in contact should be in inertial motion, the centers of mass should be 4-accelerated apart by an amount that is a whole proportion of the surface gravity of either sphere alone. Is this acceleration 1, or 2 (in units of "1-g" for a single sphere)?

Is the force needed to be applied a whole proportion of the mass of one of the spheres, and is this force (in kg or pounds) 1 or 2?

If the two spheres are separated to one diameter apart, and released, there will be a short period of time pass before the surfaces come in contact.

If the two spheres are separated to two diameters apart, is the time period before contact 1 or 2 times that of one diameter apart?

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This will be slow going, with many bumps along the way.

Joe Fischer

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