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RESEARCH ARTICLE

RELATIONSHIP BETWEEN ENERGY AND MASS: A THEORY

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ABSTRACT

This paper describes a theory of relationship between energy and mass.

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INTRODUCTION

Theory of relation between energy and mass

The figure below shows a ring of positive charge in orange colour and a positive charge (in black colour) going in a simple harmonic motion about the center of orange coloured positively charged ring. As the positive charge reaches the centre of the ring from one extreme, its kinetic energy and potential energy changes. The ring is supposedly held at one place so there is no change in its kinetic energy. Let the change in its potential energy be 1 as the positive charge moves from centre to the extreme of the ring. As the charge moves away from ring, the potential energy could get converted into mass, giving rise to relation between energy and mass. The mass generated is supposed to come from charge of the ring.

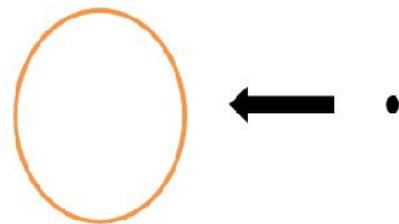


Figure 1. Positively charged ring with a positive charge in SHM about the centre of ring

Conclusion

This paper describes a theory of relation between energy and mass.
