



SBI/IFUSP  
BASE:  
SYS N°:

Instituto de Física  
Universidade de São Paulo

**The Island Effect Theory in Gravitation**

(First version from 23, July 1995)

Borge, C. J.

*Instituto de Física da Universidade de São Paulo, São Paulo, Brasil*

Publicação IF - 1350/99

# The Island Effect Theory in Gravitation

(First version from 23, July 1995)

C. J. Borge

Instituto de Física,

Universidade de São Paulo,

Caixa Postal 66.318, 05315-970

São Paulo, SP, Brasil.

(Preferred Address)

And

Universidade Paulista (UNIP)

Av. Paulista, 900, 1º. Andar

Cerqueira César, CEP. 01310-100

São Paulo, SP, Brasil.

## Abstract

We want to propose that gravitation is due to the waves that fill the space.

PACS number: 04.50.+h

São Paulo, July the 23<sup>rd</sup>, 1995

## THE ORIGIN OF THE GRAVITATIONAL FORCE

The sideral space is just like the surface of the sea water, filled with ripples spreading in all directions.

Let's not stick to the fact that in one occasion we are dealing with waves in three dimensions and in other with waves in two dimensions.

Imagine an island in the sea, surrounded all around by beaches. So, in any beach you may be, you will see sea waves constantly coming to you; this happens because the island itself blocks the waves which travel the other way, just for the fact of being there.

Let's make an analogy in order to facilitate the understanding: The planet Earth, for instance, or any other body, is in relation to the space, as the island is in relation to the sea. However, a relevant difference must be mentioned: it is the fact that the island blocks completely the passage of the waves which reach it, while the bodies in general are partially traversed by the waves coming from the outer space, which we are talking about.

Therefore, in any place of the surface of the planet you are, these waves will always be coming to you, even inside your house or apartment, with several floors above you.

However, the part coming from the ground, which traversed the Earth, is reduced, exactly for the fact of having come through the Earth. So, the resulting flow is always in the downward direction.

And now the determinant factor in the gravity force is that those waves interact with the elementary particles that constitute the atoms and so they are thrust in the direction of the acceleration of gravity (vertically downwards). In each particle the intensity of the applied force is very small, but when we make the addition for all the particles, we find, as the result, the weight of the body.

We have the impression that the body is being attracted by the Earth, but in truth it is being thrust by these waves. The same way a body that floats in the sea, near the island will be brought to the beach. One may have the impression that it is being attracted by the island.

See that, to any other two bodies, this argument justifies the apparent attraction to each other.

It's curious to observe that the more you think about this effect the clearer are your ideas.

Carlos José Borge