

A Simple Mechanism for Gravitation

Chun-Xuan Jiang

P.O.Box 3924, Beijing 100854, P. R. China

123jiangchunxuan@gmail.com

Gravity is a great mystery. No one has since given any machinery. In this paper we give a simple machinery. Gravity is the tachyon centripetal force.

Anybody may understand gravitation.

Using the tardyon and tachyon coexistence principle [1]

$$u\bar{u} = c^2 \quad (1)$$

where c is light velocity in vacuum, $u \leq c$ tardyon velocity and $\bar{u} \geq c$ tachyon velocity.

We deduce the new gravitation formula: $\bar{F} = -\frac{mc^2}{R}$.

Figure 1 shows that the rotation ω of body A emits tachyon mass \bar{m} , which forms the tachyon and gravitation field and gives the body B revolutions u and \bar{u} .

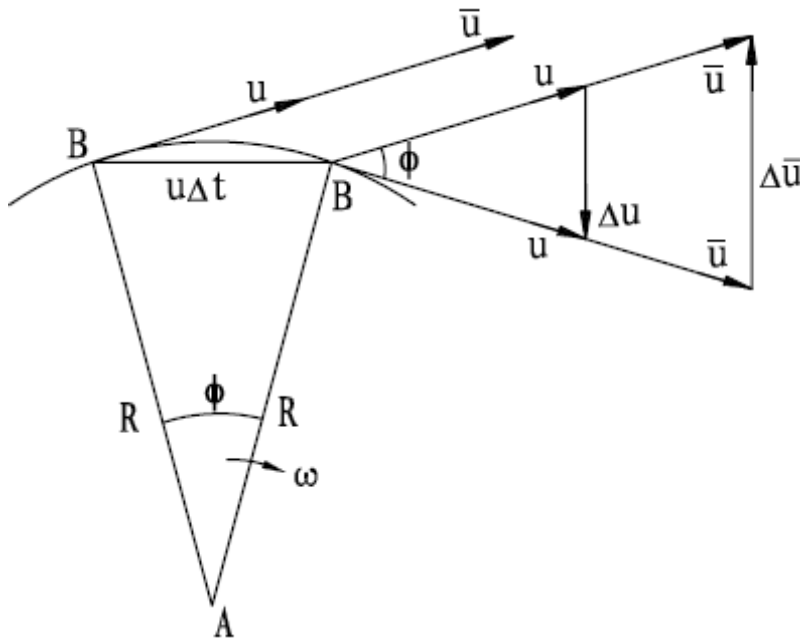


Fig.1. On body B $\frac{du}{dt}$ and $\frac{d\bar{u}}{dt}$ coexistence [2].

From Fig. 1 it follows

$$\frac{u\Delta t}{R} = \frac{\Delta u}{u} \quad (2)$$

From (2) it follows the tardyon centripetal acceleration on the body B [2-6],

$$\frac{du}{dt} = \lim_{\substack{\Delta t \rightarrow 0 \\ \Delta t \rightarrow 0}} \frac{\Delta u}{\Delta t} = \frac{u^2}{R}. \quad (3)$$

From Fig. 1 it follows

$$\frac{u\Delta t}{R} = -\frac{\Delta \bar{u}}{\bar{u}}. \quad (4)$$

From (4) it follows the tachyon centrifugal acceleration on the body B [2-6],

$$\frac{d\bar{u}}{dt} = \lim_{\substack{\Delta \bar{u} \rightarrow 0 \\ \Delta t \rightarrow 0}} \frac{\Delta \bar{u}}{\Delta t} = -\frac{u\bar{u}}{R} = -\frac{c^2}{R}. \quad (5)$$

On body B $\frac{du}{dt}$ and $\frac{d\bar{u}}{dt}$ coexistence.

From (3) it follows the tardyon centrifugal force on body B [2-6],

$$F = \frac{M_B u^2}{R}, \quad (6)$$

where M_B is body B mass.

From (5) it follows the tachyon centripetal force on body B , that is gravity [2-6],

$$\bar{F} = -\frac{mc^2}{R}, \quad (7)$$

where m is the gravitation mass converted into by tachyon mass \bar{m} which is unobservable but m is observable. \bar{m} give all particles mass which replace the Higgs bosons. Elusive Higgs bosons have not been produced at the Large Hadron Collider at CERN. On body B F and \bar{F} coexistence.

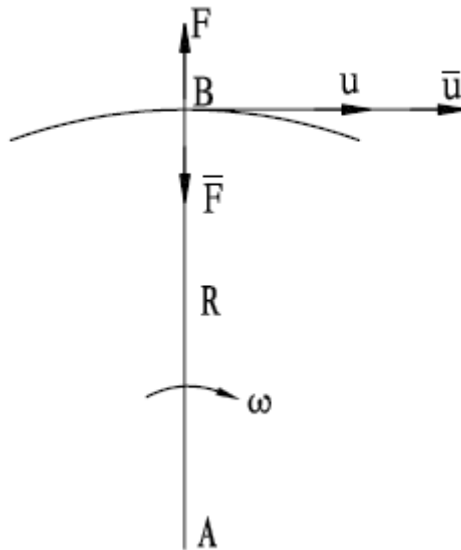


Fig.2. On body B F and \bar{F} coexistence[2].

From Fig. 2, it follows

$$F + \bar{F} = 0. \quad (8)$$

From (6), (7) and (8) it follows

$$\frac{m}{M_B} = \frac{u^2}{c^2}. \quad (9)$$

Body B increases mass m and centrifugal force is greater than gravitation force, then body B expands outward. [5,6]

From (7) it follows Newtonian gravitation formula. The m is proportional to body A mass M_A , in (9) m is proportional to M_B , is inversely proportional to the distance R between body A and body B . It follows

$$m = k \frac{M_A M_B}{R}, \quad (10)$$

where k is constant

Substituting (10) into (7) it follows the Newtonian gravitation formula [2-6]

$$\bar{F} = -G \frac{M_A M_B}{R^2}, \quad (11)$$

where $G = kc^2 = 6.673 \times 10^{-8} \text{ cm}^3 / \text{g} \cdot \text{sec}^2$ is gravitation constant.

References

- [1] Chun-Xuan Jiang, A theory of morphisms between the tardyon and tachyon, Wuli(physics), (Chinese), 4. (175)119-125.
- [2] Chun-Xuan Jiang, On nature for gravitation, J. Beijing observatory (Chinese), 7(1976)32-38.
- [3] Chun-Xuan Jiang, An approach on the nature of attractive force, Potential science (Chinese), 4(1982)19-20.
- [4] Chun-Xuan Jiang, A unified theory of the gravitational and strong interactions, Hadronic J., 24(2001)629-638.
- [5] Chun-Xuan Jiang, An equation that changed the universe: $F = -mc^2/R$
<http://www.wbabin.net/ntham/xuan150.pdf>
<http://vixra.org/pdf/1007.0018v1.pdf>
- [6] Chun-Xuan Jiang, All eyes are on the elusive Higgs and neutrinos,
<http://vixra.org/1203.0040v2.pdf>

图 1,2 是 1976 年用中文发表, 但非常清楚, 2012-04-19 决定重写, 所有人都可能理解引力。本文给出引力一个真正说明, 已超越牛顿引力理论, 打倒爱因斯坦广义相对论引力理论。已在国外上网 <http://www.vixra.org/pdf/1204.0085v1.pdf>, 引起很多专家恐慌, 许多物理问题将要重写, 国外网马上转载, 证明引力是超光速转动惯性向心力, 亚光速转动惯性离心力, 这两种力都是惯性力。核心中力也是这种力。用图表示更有说服力, 引力是超光速粒子的向心

力,过去爱因斯坦把它看作数学问题,图 1 把引力看作超光速问题,就变成非常简单,牛顿引力是猜想,他没有说明引力是什么? 欧洲核子研究中心(CERN) 主要任务找上帝粒子,证明夸克模型是正确的. 上帝粒子根本不存在,正负质子对撞只产生正负电子,那末 CERN 应关门,所有加速器也应关门。2012 年世界第一件大事就是寻找上帝粒子,本文就是否定上帝粒子不存在,在国内外宣传这短文。蒋春暄研究任何问题中国科学院都不支持,这个问题中国也不支持,他们什么也做不出,中国又如何发展科学,20 世纪是爱因斯坦广义相对论思路,纯数学也解决所有物理问题,弦论黑洞都是在玩数学例如微分几何规范场理论。未解物理学是占宇宙半边天的超光速世界,目前国外没有正确超光速理论,国外研究量子通信,量子计算机,量子纠缠,理论基础是超光速问题,都是不可测量的,这是没有用的。本文在国内外用 e-mail 宣传,