consideration of gravity potential energy and energy-mass conservation law

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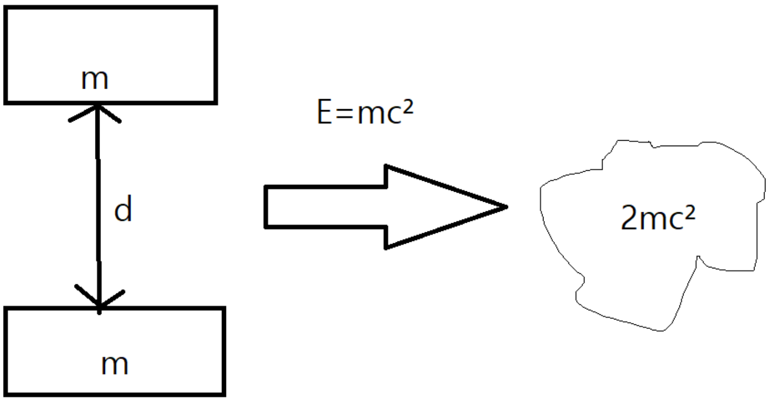
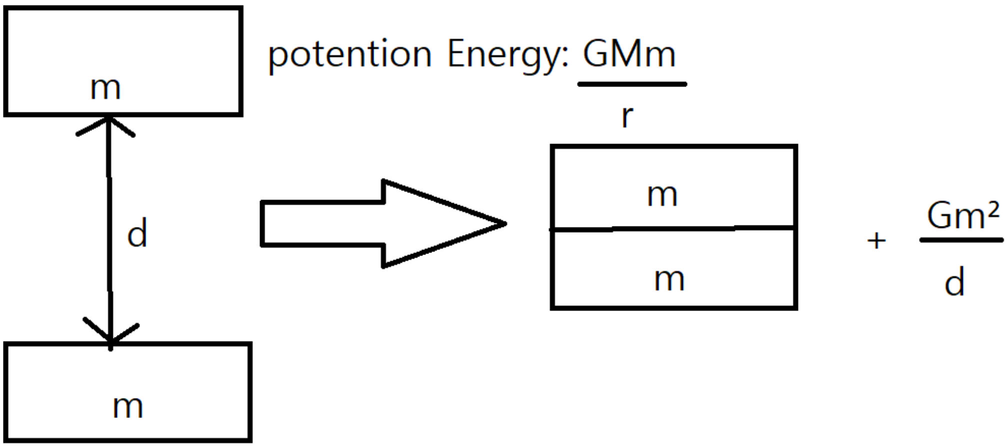
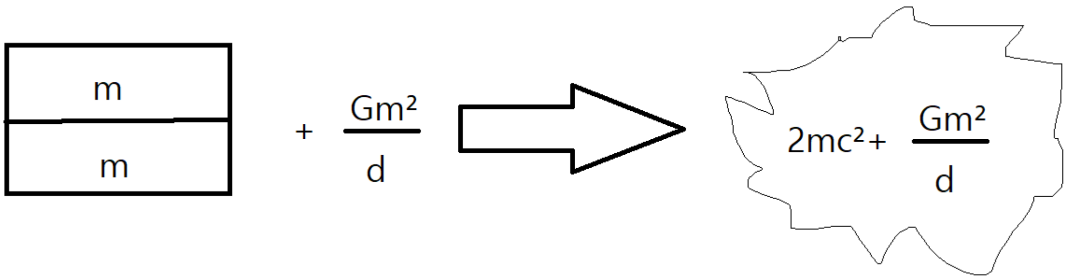
A. When two objects with a mass of m are d apart, convert the mass of this object into energy using E=mc^2, and you will get 2mc^2.



B. When two objects that have fallen are attached by gravity, gravity potential energy appears as a value of $\frac{Gm^2}{d}$.



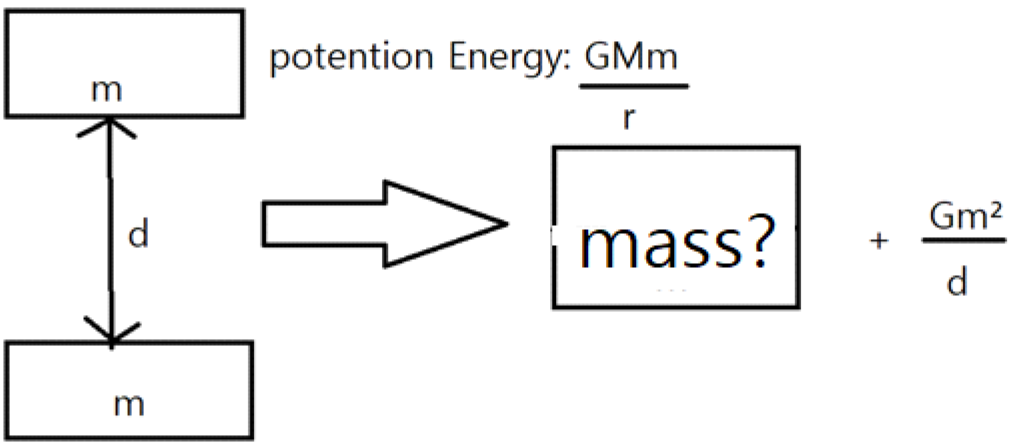
After that, change the object back to energy using the E=mc^2 formula.



Then you can get a value of $mc + \frac{Gm^2}{d}$.

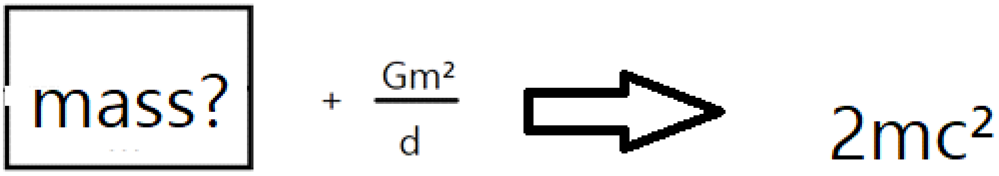
Now we need to look at A and B again. Both A and B started from the same mass (2m), resulting in different energies. It seems against the law of conservation of mass-energy. So I'm going to try to solve this through two hypotheses.

Jong-Seo Hypotheses 1: When a constant object is attached to each other by gravity, mass is decrease.



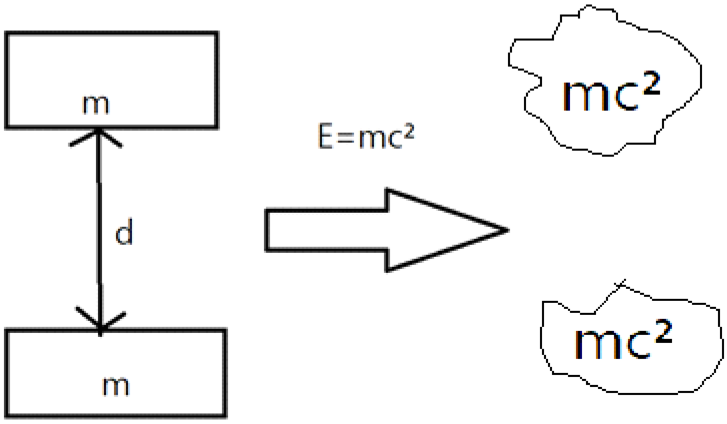
if *mass?* ≠ 2m, according to Jong-Seo Hypotheses 1, if *mass?* =

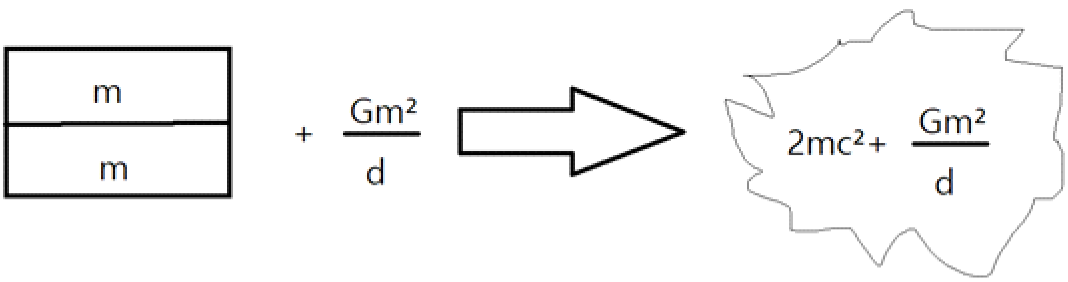
$2m - \frac{Gm}{dc^2}$, then, We can get a value of Energy: $2mc^2 - \frac{Gm^2}{d}$, using E=mc^2.



If so, conclusion, If we use A or B, we can get the same value of 2mc^2.

Jong-Seo Hypothesis 2: When energy is scattered, entropy increases and the total amount of energy decreases.





case A, Energy of mc^2 scattered.

case B, Energy of $2mc^2 + \frac{Gm^2}{d}$ be in a huddle.

so, according to the Jong-Seo Hypothesis 2, if the huddle energy

$2mc + \frac{G\ m^2}{d}$ be scattered, then, total value of energy will be decreased, and it could be 2mc^2. However, this hypothesis violates the law of conservation of energy, and I think that Jong-seo hypothesis 1 is a more reasonable hypothesis, so Jong-seo hypothesis 2 will probably be discarded.

Note: The person who wrote this paper is Korean and I am not good at English, so I wrote it using a translator. If you don't understand anything, please feel free to contact us at newyjsk@gmail.com and I'll kindly reply to you when I check.

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