The Mobility, Volume and Gravity Principles of Life Formation

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August 11, 2016
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Abstract: Three Principles of life formation is presented according to stellar metamorphosis.

For life to form on any object, the molecules for life formation need to be able to move on vast scales. This means life evolves on objects which have large gaseous atmospheres, as that would provide the most motion, as opposed to solid or liquid objects. Life begins where large amounts of mixing can take place between molecules. It is much more probable that a star can form complex chemistry naturally when it can mix trillions of tons of matter in a giant blender like configuration, as opposed to thinking that there is very little mixing.

"Life begins where the highest mobility for molecular interaction and mixing can take place."

Also, life begins in areas where there is a vast volume present. The statistical probability will need to be calculated, but the author is betting that objects have a higher chance of forming life if they are more voluminous. This is as opposed to the surfaces of very small bodies. The likelihood of molecules mixing to form amino acids and various other proteins is vastly higher in a giant object such as Neptune or Jupiter as opposed to just the surface of a small asteroid. The differences are huge, we can have molecules mixing in a volume of tens of billions of kilometers of material, or on a surface of a few hundred kilometers. Which is more probable?

"Life begins in objects which have very large volumes."

Lastly life begins where the material can be stopped from escaping the body. This meaning there has to be a strong gravitational field to hold onto newly formed molecules.

"Life requires a significant gravitational field so that forming and formed molecules can not escape."

It takes an entire star to mix up the ingredients for life to form, it does not happen on the surfaces of tiny asteroids that have no appreciable atmosphere or ability to hold on to the molecules once they are mixed. Without a significant volume, mixing ability and gravitational field, it becomes highly improbable that any life can form, especially not on the scales found on Earth.