

Does extraterrestrial life exist in outer space?

Currently, this question cannot be answered by anyone. However, if we rephrase the question as follows: "Can extraterrestrial life exist in outer space?", we can take a few things into consideration based on current knowledge:

1. Given the composition of our solar system, we can conclude that the formation of planets and moons around a celestial body is not uncommon and rather the rule than the exception: The eight planets of our sun together have at least 180 moons.
2. The number of fixed stars in our own galaxy is estimated to be 10^{10} (10 billion).
3. The number of galaxies in the universe is likewise estimated to be 10^{10} . It follows that there are around 10^{20} fixed stars in the universe.
4. If only one in 100 million of these stars is sun-like and can sustain an inhabitable planet, the universe harbors around 10^{12} (1 trillion) inhabitable planets. Can we seriously believe that life only developed on earth?

Addendum

There are physicists who are convinced that our universe, which we perceive as three-dimensional, is in reality four-dimensional and part of a five-dimensional "hyperspace". If that were the case, there could be any number of so called (four-dimensional) "parallel universes" within this hyperspace. Those would not necessarily have to be parallel to our universe in a mathematical sense, but could intersect it, and both could share a common 3-dimensional space. This space, in which they permeate each other, would then offer the possibility to cross over from one universe to the other. If UFOs really exist, which cannot conclusively be ruled out, it would be much more likely that these UFOs are from another universe rather than our own (because of the large, insurmountable distance between our planet and other inhabitable planets).

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