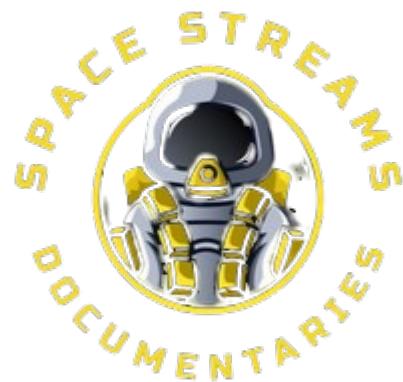


Space Chat Podcast 30th January, 2026 Topics



Topics:

- **New Research Reveals the Ingredients for Life Form on Their Own in Space**

"How did life begin?" That question has been pondered by philosophers, scholars, and scientists since time immemorial. In the modern age, it has been generally assumed that the building blocks of life as we know it - amino acids, DNA, and RNA - came together spontaneously to form the first proteins billions of years ago. However, all attempts to recreate this chemical reaction ("abiogenesis") in the laboratory have yielded null results. Nevertheless, it has been widely accepted that this event occurred on Earth, most likely in its early oceans.

<https://www.universetoday.com/articles/new-research-reveals-the-ingredients-for-life-form-on-their-own-in-space>

- **A Laser Ruler for Sharper Black Hole Images**

Researchers at KAIST have developed a breakthrough technology that could dramatically improve our ability to image black holes and other distant objects. The team created an ultra precise reference signal system using optical frequency comb lasers to synchronise multiple radio telescopes with unprecedented accuracy. This laser based approach solves long standing problems with phase calibration that have plagued traditional electronic methods, particularly at higher observation frequencies.

<https://www.universetoday.com/articles/a-laser-ruler-for-sharper-black-hole-images>