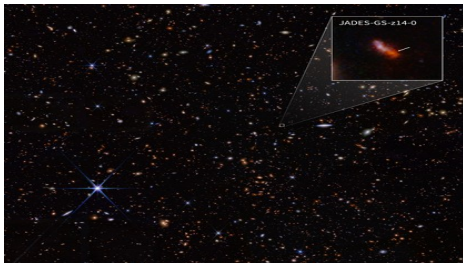


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Dr. Alex Filippenko



The galaxy JADES-GS-z14-0 is one of the most distant galaxies images by the James Webb Space Telescope. (Credit: NASA)



The Pillars of Creation as seen by JWST. (Credit: NASA)

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# Fall 2024

## Harcourt “Ace” Vernon Memorial Lecture

**September 10, 2024  
7:30 pm Clayton Hall  
University of Delaware**

*Featuring Guest Speaker*

**Dr. Alex Filippenko  
UC Berkeley**

### Exciting Results with NASA’s *James Webb Space Telescope*

The 6.5 meter James Webb Space Telescope was launched on Dec. 25 2021. It is currently orbiting the sun in a halo pattern nearly one million miles from Earth. James Webb detects infrared light (heat) from celestial bodies. Dr. Alex Filippenko will show us how astronomers use the James Webb Telescope to study the earliest, most distant galaxies in the Universe, the formation of new stars inside dense clouds of gas and dust, newly dust in gases ejected by exploding stars, very cool objects such as brown dwarfs, and even the atmospheres of planets around other stars.



One of JWST’s first deep field images. This image contains thousands of galaxies In a piece of sky no bigger than a grain of sand held at arms length. (Credit: NASA)