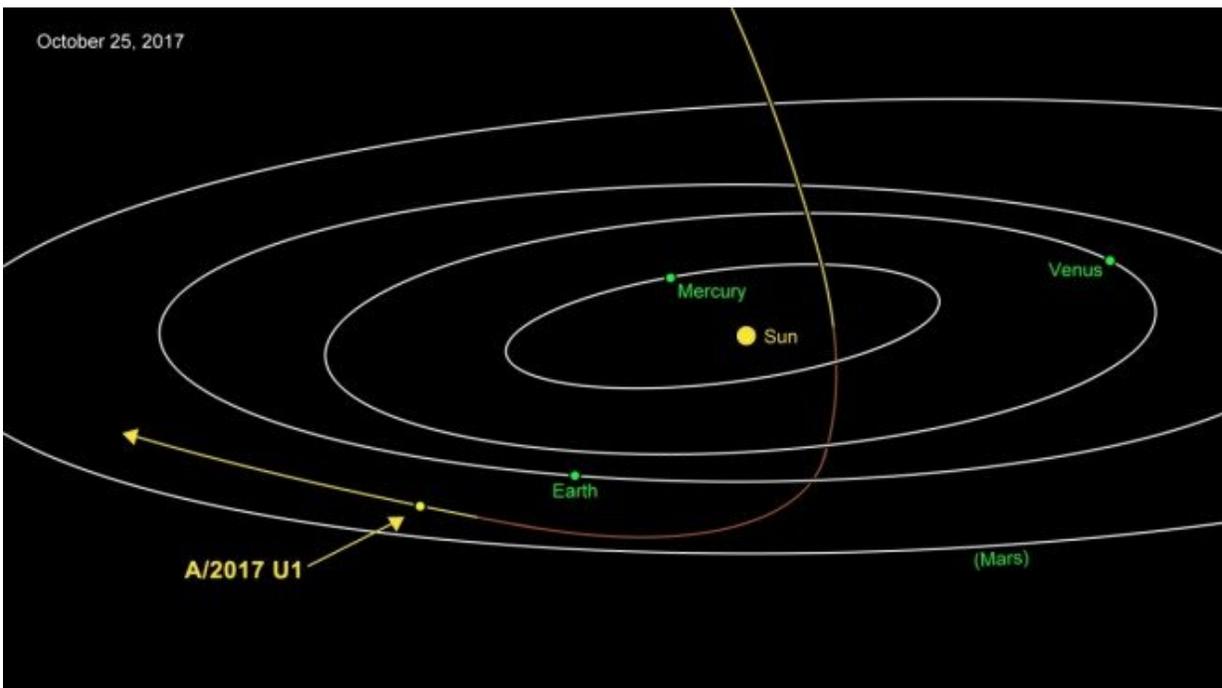


# Interstellar visitor shaped like giant fire extinguisher (Update)

November 16 2017, by Marcia Dunn

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Credit: NASA/JPL-Caltech

A newly discovered object from another star system that's passing through ours is shaped like a giant pink fire extinguisher.

That's the word this week from astronomers who have been observing this first-ever confirmed interstellar visitor.

"I'm surprised by the elongated shape - nobody expected that," said astronomer David Jewitt of the University of California, Los Angeles, who led the observation team that reported on the characteristics.

Scientists are certain this asteroid or comet originated outside our solar system. First spotted last month by the Pan-STARRS telescope in Hawaii, it will stick around for another few years before departing our sun's neighborhood.

Jewitt and his international team observed the object for five nights in late October using the Nordic Optical Telescope in the Canary Islands and the Kitt Peak National Observatory near Tucson, Arizona.

At approximately 100 feet by 100 feet by 600 feet (30 meters by 30 meters by 180 meters), the object has proportions roughly similar to a fire extinguisher—though not nearly as red, Jewitt said Thursday. The slightly red hue—specifically pale pink—and varying brightness are remarkably similar to asteroids in our own solar system, he noted.

Astronomer Jayadev Rajagopal said in an email that it was exciting to point the Arizona telescope at such a tiny object "which, for all we know, has been traveling through the vast emptiness of space for millions of years."



This undated photo made available by the University of Hawaii shows the Pan-STARRS1 Observatory on Haleakala, Maui, Hawaii at sunset. In October 2017, the telescope discovered an object from another star system that's passing through ours. It was given the name "Oumuamua," which in Hawaiian means a messenger from afar arriving first. (Rob Ratkowski/University of Hawaii via AP)

"And then by luck passes close enough for me to be able to see it that night!"

The object is so faint and so fast—it's zooming through the solar system at 40,000 mph (64,000 kph)—it's unlikely amateur astronomers will see it.

In a paper to the *Astrophysical Journal Letters*, the scientists report that our solar system could be packed with 10,000 such interstellar travelers at any given time. It takes 10 years to cross our solar system, providing

plenty of future viewing opportunities, the scientists said.

Trillions of objects from other star systems could have passed our way over the eons, according to Jewitt.

It suggests our solar system ejected its own share of asteroids and comets as the large outer planets—Jupiter, Saturn, Neptune—formed.

Why did it take so long to nail the first interstellar wanderer?

"Space is big and our eyes are weak," Jewitt explained via email.

Anticipating more such discoveries, the International Astronomical Union already has approved a new designation for cosmic interlopers. They get an "I" for interstellar in their string of letters and numbers. The group also has approved a name for this object: Oumuamua (OH'-moo-ah-moo-ah) which in Hawaiian means a messenger from afar arriving first.

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