

the record-holder for the star cluster containing the most red supergiants was NGC 7419, which had five.

Stars that become red supergiants are typically between 6 million to 15 million years old and about 8 to 25 times more massive than our Sun.

"If a red supergiant were situated where our Sun is, it would envelop Jupiter," Figer said.

Because the red supergiants in this cluster are still relatively bright, Figer's team estimates that the star cluster is relatively young, between 8 and 10 million years old. The idea is that stars in the cluster have to be young enough for astronomers to see them before they go supernova, yet old enough for some of them to have evolved to the red supergiant phase in the first place.

Hiding place

The reason the cluster has been largely overlooked until now is because of the interstellar dust that blankets much of the Milky Way.

"This cluster isn't too far away but there's a certain amount of dust between us and it," Figer said. "At optical wavelengths, the stars are so faint that no telescope can see them."

But using NASA's infrared <u>Spitzer Space Telescope</u>, the researchers were able to pierce through the dust cover and see the cluster in detail for the first time.

The cluster is the first in a survey of 130 potential massive star clusters in our galaxy that the team has targeted for study over the next five years.

The findings were presented last week at the 207th meeting of the American Astronomical Society in Washington, DC.

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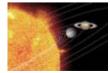
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