

After 40 years of searching, scientists have discovered the type of wave that reveals the secret of the Sun's core

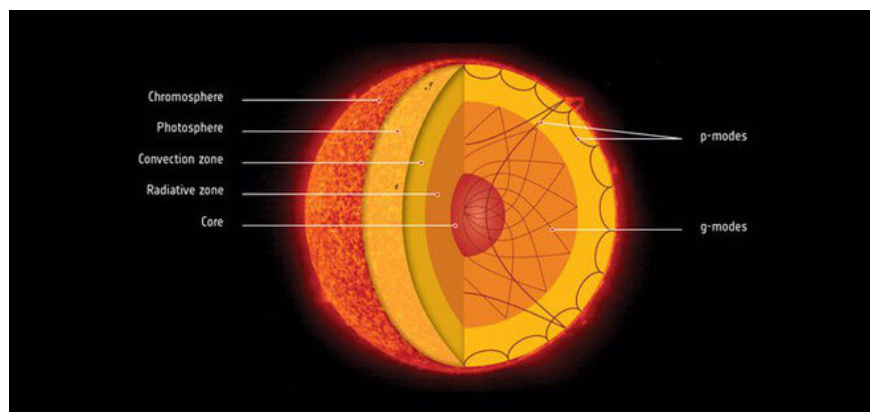
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1. It takes hundreds of thousands of years for light to travel from the center of the Sun to Earth?
2. Use the Sun's gravity to transmit interstellar signals

Like the Earth's core, temperature and distance are the biggest obstacles that make the core of the Sun a mystery that science still can't understand.

Scientists have discovered the existence of a **low-frequency gravitational wave that is** unlike a gravitational wave called the G-wave in the Sun's core thanks to data from ESA and the SOHO - Solar and Heliospheric Observatory of NASA. This is the key to help scientists open the mysterious door that the Sun has kept up to now.

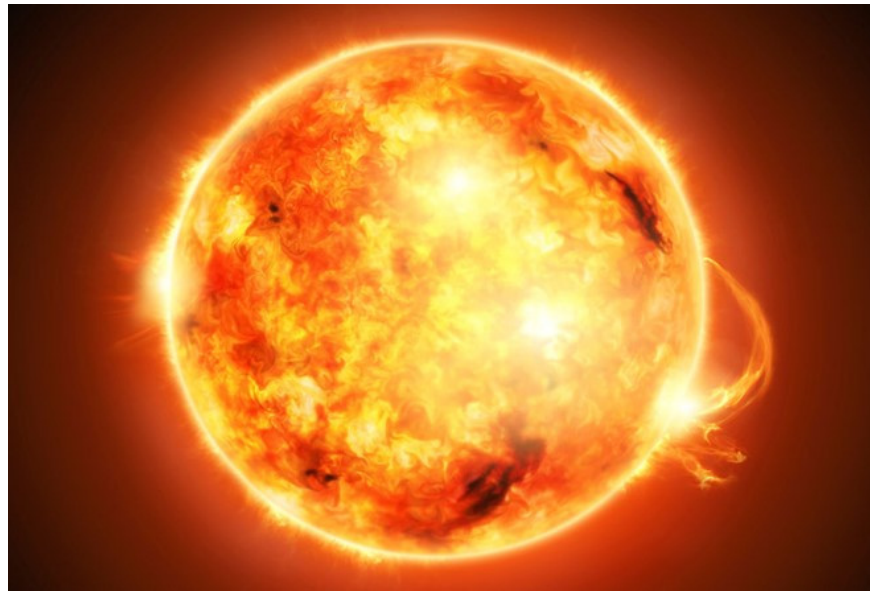


Layers of Sun and G waves (Photo: ESA.)

According to Eric Fossat, astronomer from the Côte d'Azur Observatory (France), scientists have recognized the existence of G waves but have not been able to find concrete evidence. Finally, they discovered its clear signs after 40 years.

If the p-wave (pressure or main wave) is easily found on the Sun's surface, a high-frequency wave can penetrate many inner layers, whereas the **G wave cannot be found at the surface. only in the core layer deep inside .**

Wave G goes from the inner core to the Sun's surface in 4 hours 7 minutes. By analyzing G waves, scientists can understand a lot about what's going on deep inside the Sun's core.



Previously, scientists thought that the core of the Sun core moved faster than the surface but they had no way to verify this claim. But thanks to G wave analysis, scientists believe that **the rotation of the Sun's core layer changes once a week and is 4 times faster than the layers near the surface** like the equator with a 25-day cycle and at The pole is 35 days.

The Sun's rotation cycle has not changed since it was formed 4.6 billion years ago.

This new discovery by scientists will open many new discoveries as well as the new awareness of the Sun, our closest star, as well as the Earth's source of life.

This discovery was published in the scientific journal Astronomy & Astrophysics.

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