Students Discover Unusual Metal-Free Star in Milky Way

Description

A group of students from the University of Chicago has found an ancient star named SDSS J0715-7334. This star should not be in the Milky Way because it formed in another galaxy before drifting into ours. The students made this discovery with the help of Professor Alex Ji and data from the Sloan Digital Sky Survey (SDSS). This project helps scientists study stars, black holes, and galaxies.

The students discovered SDSS J0715-7334 during an astronomy class. They were examining many stars when one star caught their attention. Professor Ji said this finding changed their plans for the course. The star has very little heavy material, such as carbon and oxygen, making it one of the oldest stars ever seen.

The researchers found that SDSS J0715-7334 originated in the Large Magellanic Cloud, a nearby galaxy. It drifted into the Milky Way billions of years ago. Professor Ji called it an “ancient immigrant,” highlighting that it gives a unique look at the early universe.

This discovery is special because it was made by students. One student, Ha Do, mentioned how exciting it is to contribute to such important research. Their experience might inspire them to continue studying science in the future.

Vocabulary List:

1. **ancient** //ˈeɪnʃənt// (adjective): very old from a time long ago
2. **originated** //əˈrɪdʒəˌneɪtɪd// (verb): began in or came from a place
3. **drifted** //ˈdrɪftɪd// (verb): moved slowly without a clear direction
4. **immigrant** //ˈɪmɪgrənt// (noun): person who moved from one country to another
5. **discovery** //dɪˈskʌvəri// (noun): finding something that was unknown before
6. **galaxy** //ˈgæləksi// (noun): a very large group of stars and planets

Comprehension Questions

Multiple Choice

1. What is the name of the ancient star discovered by the students?

   Option: SDSS J0715-7334

Option: HD 140283
Option: Sirius A
Option: Proxima Centauri

2. In which galaxy did SDSS J0715-7334 originally form?

Option: Milky Way
Option: Andromeda
Option: Large Magellanic Cloud
Option: Sombrero Galaxy

3. Who helped the students in their discovery of the star?

Option: Professor Alex Ji
Option: Professor Jane Doe
Option: Dr. John Smith
Option: Professor Emily White

4. What type of survey helped in the discovery of SDSS J0715-7334?

Option: Hubble Space Telescope Survey
Option: Sloan Digital Sky Survey
Option: Kepler Mission
Option: Galileo Survey

5. What characteristic does SDSS J0715-7334 have in terms of heavy materials?

Option: High concentration of heavy materials
Option: Very little heavy material
Option: Moderate concentration of heavy materials
Option: No heavy material at all

6. Which statement best describes the nature of the discovery of SDSS J0715-7334?

Option: It was discovered by professional astronomers.
Option: It was discovered by a group of students.
Option: It was discovered by AI technology.
Option: It was discovered by the public through a petition.

True-False

7. SDSS J0715-7334 is located in the Milky Way galaxy.

8. The discovery was made by students during an astronomy class.

9. Professor Alex Ji expressed excitement over the student's finding.

10. Ha Do is a lecturer at the University of Chicago.

11. The star SDSS J0715-7334 has a high amount of carbon and oxygen.

12. The discovery of SDSS J0715-7334 could inspire the students to pursue science further.

Gap-Fill

13. The star SDSS J0715-7334 formed in another galaxy before drifting into the _____.

14. Professor Ji referred to SDSS J0715-7334 as an ancient _____ to highlight its origins.

15. The researchers found SDSS J0715-7334 to have very little heavy _____ like carbon and oxygen.

16. The discovery made by the students was supported by data from the Sloan _____ Survey.

17. Ha Do mentioned how exciting it is to contribute to important _____ research.

18. The discovery of the ancient star changed the students' plans for the _____ course.

Answer

Multiple Choice: 1. SDSS J0715-7334 2. Large Magellanic Cloud 3. Professor Alex Ji 4. Sloan Digital Sky Survey 5. Very little heavy material 6. It was discovered by a group of students.
True-False: 7. False 8. True 9. True 10. False 11. False 12. True
Gap-Fill: 13. Milky Way 14. immigrant 15. material 16. Digital 17. science 18. astronomy

CATEGORY

1. Sci/Tech - LEVEL2

POST TAG

1. ESL learning
2. esl news
3. group of students
4. Level 2
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Date Created
2026/04/19
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