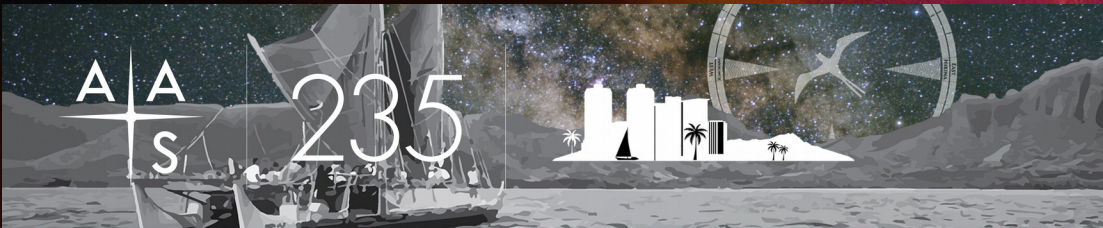


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CLuS'N Lab

Cis-Lunar Space Neutrino Laboratory



235TH MEETING OF THE
AMERICAN ASTRONOMICAL SOCIETY

HONOLULU, HAWAII
4-8 JANUARY 2020

Joint with AAS Historical Astronomy and High Energy Astrophysics Divisions

Neutrinos



- **Origins**

Where do they come from?

- **Properties**

Nearly cosmic speed limit. $\leq 2.998 \times 10^8$ m/s?

- **Applications**

Galactic propulsion systems?

CLuS Neutrinos

The background of the slide is a vibrant cosmic scene. It features a bright, glowing galaxy core in the center, surrounded by a field of stars and nebulae in shades of orange, red, and yellow. Several planets or moons are visible in the foreground, including a large, detailed one in the lower right and several smaller ones scattered across the sky.

- **Gravitational wave**

Neutrino role?

- **Advanced instruments**

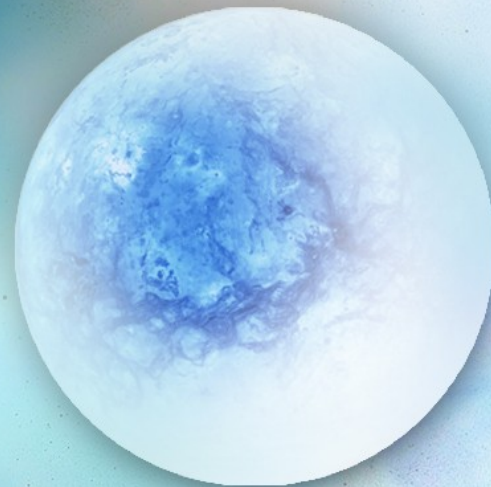
Nanoscale built sensors?

- **Lunar ISRU experiments**

Neutrino- ^3H fusion?

IceCube

- 5,160 sensors
- 86 strings
- 1 billion ton of ice
- 10^{38} atoms



Sustained Science

