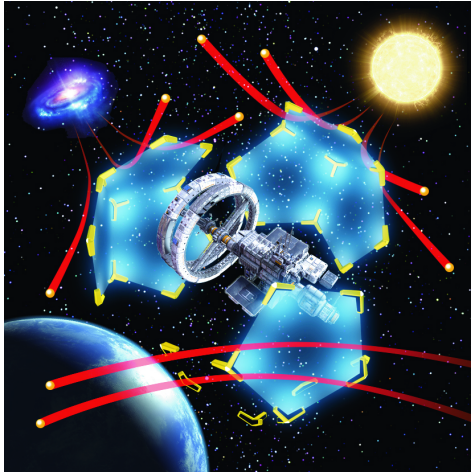


Proactive cosmic ray barrier technology



Active protection by generating electromagnetic fields to bend the tracks of cosmic rays

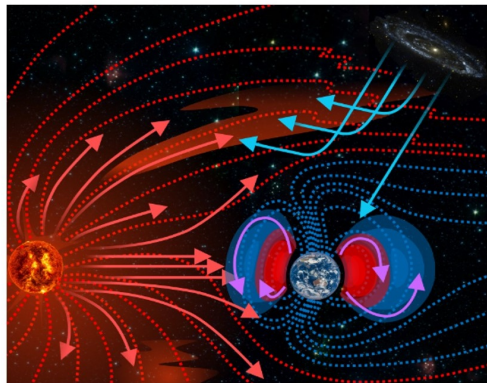
Background

The space industry is shifting to the private sector and the need for low-cost and high-performance consumer equipment for use in space is increasing. However, failure due to harsh space radiation has become a problem and could threaten the safe and secure operation of space infrastructures.

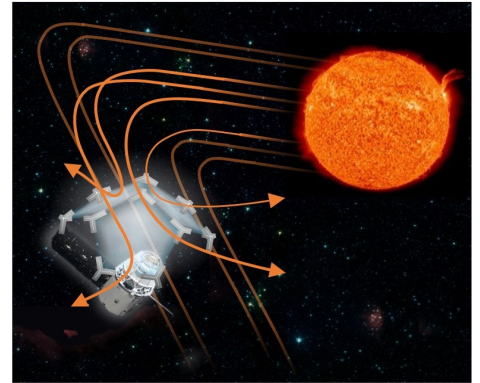
Summary

The Cosmic ray barrier technology protects electronic equipment from cosmic rays by generating electromagnetic barriers. By predicting the path of cosmic rays generated by solar flares and other events, the barrier can be deployed in the direction of their arrival to provide efficient protection.

Prediction of the arrival direction of cosmic rays by simulating their paths



Efficient protection by proactive barrier deployment in the simulated arrival direction of cosmic rays



Features

- Active protection by generating electromagnetic fields to bend the tracks of cosmic rays
- Prediction of the arrival direction of cosmic rays by simulating their paths based on phenomena such as solar flares and the electromagnetic fields in space
- Efficient protection by proactive barrier deployment in the simulated arrival direction of cosmic rays

Future_benefits

We will achieve a safe and secure entry into space for humans through the use of space data centers, Moon and Mars bases, etc. by protecting space infrastructure from cosmic rays.

Exhibiting Company

NIPPON TELEGRAPH AND TELEPHONE CORPORATION

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