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Health threats from cosmic rays are the dangers posed by cosmic rays to astronauts on interplanetary missions or any missions that venture through the Van-Allen Belts or outside the Earth's magnetosphere. They are one of the greatest barriers standing in the way of plans for interplanetary travel by crewed spacecraft, but space radiation health risks also occur for missions in low Earth orbit such as the International Space Station. In October 2015, the NASA Office of Inspector General issued a

[Health threat from cosmic rays - Wikipedia](#)

Among these are the hazards of space radiation to crews traveling to the Moon and Mars. To explore these challenges in some depth and to examine ways to marshal research efforts to address them, NASA, NSF, and the NRC sponsored a workshop bringing together members of the space and planetary science, radiation physics, operations, and exploration engineering communities.

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The particles associated with ionizing radiation in space are categorized into three main groups relating to the source of the radiation: galactic cosmic rays, solar flare particles, and radiation belt particles (Van Allen Belts) trapped in space around the Earth.

[Why Space Radiation Matters | NASA](#)

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[Space Radiation Hazards and the Vision for Space ...](#)

Fulfilling the President's Vision for Space Exploration (VSE) will require overcoming many challenges, among them the hazards of space radiation to crews

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