



Health threat from cosmic radiation during manned missions to Mars

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1. Analysis of the health threat from cosmic radiation during manned missions to Mars within the context of a Hohmann transfer and considering career radiation dose limits.
 2. Interest in exploration of Mars has been growing and NASA's next step for exploration of the planet undoubtedly involves a manned mission to Mars.
 3. Extensive data collection of the radiation dose on the surface of Mars and during interplanetary travel has been conducted.
 4. There is potential for manned missions to Mars to meet the requirements for astronaut career radiation dose limits if travel time each way is 180 days or less. This can be achievable with current technology.
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