

## Proton Radiation Damage Experiment on P-Channel CCD for an X-ray CCD camera onboard the Astro-H satellite

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We report on a proton radiation damage experiment on P-Channel CCD newly developed for an X-ray CCD camera onboard the Astro-H satellite. The device has been exposed up to  $10^9$  protons/cm<sup>2</sup> at 6.7 MeV. The charge transfer inefficiency (CTI) is measured as a function of radiation dose. In comparison with the CTI actually measured in the CCD camera onboard the Suzaku satellite for 6 years, we confirm that the new type of P-Channel CCD is radiation tolerant enough for space use. The temperature dependence of the CTI is also reported.

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