

Name of research institute or organization:

iRoC Technologies, France

Title of project:

Soft Error Measurements on CCD sensors

Project leader and team:

Anne-Lise Lhomme-Perrot, project leader
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Project description:

In some types of semiconductor, like image sensors, hard errors due to neutron radiations become an issue. Our experiment aims to evaluate radiation damage (by natural cosmic radiations) on some CCD sensors. Jungfraujoch Station is a suitable location for this kind of test because of the mild acceleration condition (compared to the average neutron radiation at lower altitude). This irradiation is done from beginning of October 2008 to beginning of January 2009.

Key words:

Cosmic rays, cosmic radiations, RTSER, soft error test, CCD sensor

Scientific publications and public outreach 2008:

Refereed journal articles and their internet access

Test Method for Real-Time Soft Error Rate – JESD89-1A (October 2007)
<http://www.jedec.org/download/search/JESD89-1A.pdf>

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