

Name of research institute or organization:

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**iRoC Technologies, France**

Title of project:

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Soft Error Measurements on CCD sensors

Project leader and team:

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Anne-Lise Lhomme-Perrot, project leader  
SE Test Department

Project description:

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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:

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

Scientific publications and public outreach 2008:

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**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>

Address:

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iRoC Technologies  
2 square Roger Genin  
38000 Grenoble  
FRANCE

Contacts:

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Anne-Lise Lhomme-Perrot  
Tel.: +33 438 120 763  
Fax: +33 438 129 615  
e-mail: [anne-lise.lhomme-perrot@iroctech.com](mailto:anne-lise.lhomme-perrot@iroctech.com)

