

Accepted Manuscript

Overview of the NASA Space Radiation Laboratory

Chiara La Tessa, Michael Sivertz, I-Hung Chiang, Derek Lowenstein,
Adam Rusek

PII: S2214-5524(16)30064-5
DOI: [10.1016/j.lssr.2016.10.002](https://doi.org/10.1016/j.lssr.2016.10.002)
Reference: LSSR 111



To appear in: *Life Sciences in Space Research*

Received date: 7 September 2016
Revised date: 8 October 2016
Accepted date: 28 October 2016

Please cite this article as: Chiara La Tessa, Michael Sivertz, I-Hung Chiang, Derek Lowenstein, Adam Rusek, Overview of the NASA Space Radiation Laboratory, *Life Sciences in Space Research* (2016), doi: [10.1016/j.lssr.2016.10.002](https://doi.org/10.1016/j.lssr.2016.10.002)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Overview of the NASA Space Radiation Laboratory

Chiara La Tessa

Brookhaven National Laboratory, Upton 11973, NY, USA

Michael Sivertz

Brookhaven National Laboratory, Upton 11973, NY, USA

I-Hung Chiang †

Brookhaven National Laboratory, Upton 11973, NY, USA

Derek Lowenstein

Brookhaven National Laboratory, Upton 11973, NY, USA

Adam Rusek

Brookhaven National Laboratory, Upton 11973, NY, USA

Abstract

The NASA Space Radiation Laboratory (NSRL) is a multidisciplinary center for space radiation research funded by NASA and located at the Brookhaven National Laboratory (BNL), Upton NY. Operational since 2003, the scope of NSRL is to provide ion beams in support of the NASA Humans in Space program in radiobiology, physics and engineering to measure the risk and ameliorate the effect of radiation in space. Recently, it has also been recognized as the only facility in the U.S. currently capable of contributing to heavy ion radiotherapy research. This work contains a general overview of NSRL structure, capabilities and operation.

Keywords: Space radiation research, NASA

Email address: clatessa@bnl.gov (Chiara La Tessa)

† Deceased June 19th 2016.

Download English Version:

<https://daneshyari.com/en/article/5498126>

Download Persian Version:

<https://daneshyari.com/article/5498126>

[Daneshyari.com](https://daneshyari.com)