

SPACECRAFT ENVIRONMENT INTERACTION R7004R

SPENVIS Report

Analysis of the Cluster-II FM-8 (Tango) Mission

Authors: Matthias Bergmann Arthur Scharf

March 28, 2016

Abstract

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Contents

1	Introduction	1
2	Mission Definition	2
3	Space Environment	3
	3.1 Overview	3
	3.2 Radiation Environment	3
4	Numerical Simulations	4
	4.1 Environmental flux	4
	4.2 Lifetime and Performance Degradation	4
	4.3 Total Dose and Shielding	4
	4.4 Singel Event Upsets	4
	4.5 Linear Energy Transfer (LET) Spectrum	4
	4.6 Cross Section and Components Characteristics	4
	4.7 SEU Estimation	4
5	Discussion	5
References		6
Appendix		

1 Introduction

Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

2 Mission Definition

- 3 Space Environment
- 3.1 Overview
- 3.2 Radiation Environment

4 Numerical Simulations

- 4.1 Environmental flux
- 4.2 Lifetime and Performance Degradation
- 4.3 Total Dose and Shielding
- 4.4 Singel Event Upsets
- 4.5 Linear Energy Transfer (LET) Spectrum
- 4.6 Cross Section and Components Characteristics
- 4.7 SEU Estimation

5 Discussion

References

Appendix