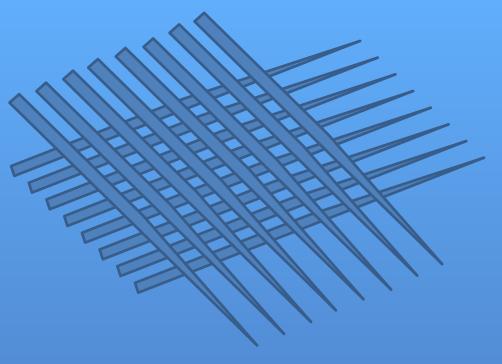# Workshop on

Memristive systems for Space applications

Highlighting the versatility of the fourth fundamental circuit element in a Space application context.

April 30th 2015

Dance Room
ESTEC, Noordwijk
The Netherlands

Organizer: Joao Cunha
Advanced Concepts Team
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esa

PROGRAMME

10:00   Welcome and Introduction

Memristors: the basics

10:30   Fundamentals of memristors (Dirk Wouters, RWTH-Aachen)

Memristor applications: memories

11:00   Resistive memories (RRAM) — principles and technology (Dirk Wouters, RWTH-Aachen)

11:30   Memristors and computer architectures (Said Hamdioui, TU Delft)

12:00   Radiation hardness of memristive systems (Andrea Fantini, IMEC)

Electronics in space applications

13:30   Electronics in extreme environments — requirements (ESA TEC)

14:00   Radiation Hard RRAM (R2RAM project)

Memristor applications: From memory to pattern recognition

14:30   Neuromorphic memristive systems (Andy Thomas, Bielefeld University)

15:00   Memristive pattern recognition capacitive networks (Lutz Nielen, RWTH-Aachen)

Info: www.esa.int/gsp/ACT/events/workshops/