

**Session Program**

**21-22 Oct 2016**

**Workshop on Sensors and High Energy  
Physics (SHEP 2016)**

***Detection - sensors and electronics,  
reconstruction methods***

Other Institutes

Ștefan cel Mare University of Suceava Address: Strada Universității 13, Suceava 720229

# Friday 21 October

11:15

## Detection - sensors and electronics, reconstruction methods

**Session** | **Location:** Astronomical Observatory, USV, Hall from first floor | **Conveners:**  
Florin Maciuc, Mihai Dimian

11:30-11:45

### Measurements and Physics of Single Event Effects in Integrate Circuits

**Speaker**

Dr Florin Maciuc

**Location**

Astronomical Observatory, USV, Hall from first floor

11:45-12:00

### Experimental study on Soft Error Mitigation (SEM) Core efficiency

**Speaker**

Lucian Nicolae Cojocaru

**Location**

Astronomical Observatory, USV, Hall from first floor

12:00-12:15

### Test bench for ASIC radiation hardness evaluation

**Speaker**

Vlad-Mihai Placinta

**Location**

Astronomical Observatory, USV, Hall from first floor

12:15-12:30

### Designing of radiation tolerant architectures implemented on FPGA Kintex7 within the LHCb project

**Speaker**

Andy Tanase

**Location**

Astronomical Observatory, USV, Hall from first floor

12:30-12:45

### Electrostatic ion accelerators at IFIN-HH

**Speaker**

Straticiuc Mihai

**Location**

Astronomical Observatory, USV, Hall from first floor

12:45-13:00

### Data Challenge at HL-LHC. Overview of Digital Electronics for the NSW detector in ATLAS

**Speaker**

Sorin Martoiu

**Location**

Astronomical Observatory, USV, Hall from first floor

13:00-15:00

### Lunch break

15:00–15:15

**Modeling of metal-oxide gas sensors with field-effect transistor structure****Speaker**

Petru Andrei

**Location**

Astronomical Observatory, USV, Hall from first floor

15:15–15:30

**Role of the tridentate thiosemicarbazone ligand in Iron chemistry****Speaker**

Oleg Palamarcuic

**Location**

Astronomical Observatory, USV, Hall from first floor

15:30–15:45

**A Range of Spin Crossover Temperatures in some Ferrous Materials****Speaker**

Sergiu Shova

**Location**

Astronomical Observatory, USV, Hall from first floor

15:45–16:00

**CdTe and Cd(Zn)Te detectors****Speaker**

Petro FOCHUK

**Location**

Astronomical Observatory, USV, Hall from first floor

16:00–16:15

**Steering spin crossover materials with amino-acids derivatives N4-substitution on 1,2,4-triazole; from molecular architecture to applications****Speaker**

Marinela Dirtu

**Location**

Astronomical Observatory, USV, Hall from first floor

16:15–16:30

**Pressure sensors based on molecular spin crossover compounds****Speaker**

Andrei Diaconu

**Location**

Astronomical Observatory, USV, Hall from first floor

16:30–16:45

**Nanoelectronic switches based on molecular spin crossover materials****Speaker**

Aurelian Rotaru

**Location**

Astronomical Observatory, USV, Hall from first floor

16:45–17:00

**Coffee break**

17:00–17:15

**Analysis of Novel Sensor Systems for Subsurface Object Detection****Speaker**

Dr Mihai Dimian

**Location**

Astronomical Observatory, USV, Hall from first floor

17:15-17:30

**Detection and Investigation of localized states in new electron transporting heterocyclic polymers and oligomers suitable for optoelectronic devices****Speaker**

Marius Prelipceanu

**Location**

Astronomical Observatory, USV, Hall from first floor

17:30-17:45

**"Design, implementation and future challenges in automotive VLC sensors"****Speaker**

Alin Căilean

**Location**

Astronomical Observatory, USV, Hall from first floor

17:45-18:00

**Using Intelligent Materials in Designing a Autoranging System for Force Measuring****Speakers**

Laurențiu Dan Milici, Mihaela Poienar

**Location**

Astronomical Observatory, USV, Hall from first floor

18:00