

## **Session Program**

**12-26 May 2019**



## **5th Summer School on INtelligent signal processing for FrontIER Research and Industry**

### ***LAB SESSION***

Huazhong University of Science and Technology in Wuhan, China

# Monday 13 May

13:30

## LAB SESSION: PRESENTATION OF THE LABS BY THE LAB ORGANIZERS IN A PLENARY SESSION

**Session** | **Location:** Huazhong University of Science and Technology in Wuhan, China

### 13:30-13:39 INTRODUCTION TO THE LABS SESSION

**Speakers**

Prof. Aurore SAVOY NAVARRO, Prof. Nicola D'ASCENZO

13:39-13:48

### FE1 FRONT-END ELECTRONICS ON DEEP SUB- MICRON CMOS TECHNOLOGY FOR THE NEXT GENERATION OF PIXEL BASED DETECTORS

**Speaker**

Prof. Lodovico RATTI

13:57-14:06

### FE2 INTRODUCTION TO FDSOI PIXEL DETECTORS

**Speaker**

Prof. Yoshinobu UNNO

14:06-14:15

### FE3 NEW SENSORS CHARACTERIZATION

**Speaker**

Dr Sven WONSAK

14:15-14:24

### FE4 2.5D AND 3D TECHNOLOGY: INTRODUCTION TO 3D INTERCONNECT TECHNOLOGY DESIGN

**Speaker**

Dr Robert PATTI

14:24-14:33

### FE5 STATIC SIPM CHARACTERIZATION

**Speaker**

Mr Lin WANG

14:33-14:42

### FE6 MULTI VOLTAGE THRESHOLD LAB

**Speaker**

Dr Daoming XI

14:42-14:51

### ASTRO1 DETECTION LAB: CHARACTERIZATION OF A CCD DETECTOR (ASTROPHYSICS)

**Speaker**

Dr Jean Gabriel CUBY

14:51-15:00

### ASTRO2 INTRODUCTION TO DARK MATTER DETECTION

**Speaker**

Dr Charling TAO

15:00-15:09

### ASTRO3 USE OF SIPM IN ASTROPHYSICS EXPERIMENTS

**Speakers**

Dr Daniel Alberto GUBERMAN, Prof. Riccardo PAOLETTI

15:09–15:18

**HEP1 ELECTRON BEAM TOMOGRAPHY OF A BASIC ELEMENT OF THE HIGH GRANULARITY CALORIMETRY FOR HL-LHC (CMS)****Speakers**

Dr David BARNEY, Mr Thorben QUAST

15:18–15:27

**MED1 NEMA MEASUREMENT OF PET SENSITIVITY****Speaker**

Mr Bo ZHANG

15:27–15:36

**MED2 SMALL ANIMAL PET MOUSE ACQUISITION****Speaker**

Dr Wenchang XIAO

15:45–15:54

**CL1 INTRODUCTION TO INTEL FPGA BASED LAB****Speaker**

Mr Zhaojun ZHU

15:54–16:03

**CL2 MASSIVE PARALLEL COMPUTING (SESSION 1)****Speakers**

Mr Jefferson FIALHO COELHO, Prof. Liria SATO, Dr Rogerio IOPE

16:03–16:12

**CL3 MASSIVE PARALLEL COMPUTING (SESSION 2)****Speakers**

Dr Rogerio LOPE, et al.

16:12–16:21

**CL4 MACHINE LEARNING & DEEP LEARNING APPLIED TO ASTROPHYSICS****Speaker**

Dr Lara LLORET IGLESIAS

16:21–16:30

**CL5 DEEP LEARNING WITH KERAS I****Speakers**

Dr Lisa BENATO, et al.

16:30–16:39

**CL6 DEEP LEARNING WITH KERAS II****Speakers**

Dr Lisa BENATO, et al.

16:39–16:48

**CL7 INTRODUCTION TO NEW FPGAS SOFTWARE PLATFORM****Speakers**

Mr Ciro CEISSLER, Prof. Guido ARAUJO, Mr Ramon NEPOMUCENO

16:48–16:57

**CL8 INTRODUCTION TO GPU COMPUTING SESSION 1****Speaker**

Dr Dorothea VOM BRUCH

16:57–17:05

**CL9 INTRODUCTION TO GPU COMPUTING SESSION 2**

**Speaker**

Dr Dorothea VOM BRUCH

17:05-17:13

**CL10 BEHIND A PUBLISHED PAPER - FROM BENCH TO MEDICAL COMMUNITY**

**Speaker**

Dr Alba DI PARDO

17:13-17:22

**CL11 LAB ON COMPUTATIONAL SPECTRAL VIDEO IMAGING**

**Speaker**

Prof. Xun CAO

17:22-17:30

**ASTRO4: Observational Laboratory**

**Speaker**

Dr Jean Gabriel CUBY

17:42

## Tuesday 14 May

14:00

17:00

### **LAB SESSION: Session 1**

**Session** | **Location:** Huazhong University of Science and Technology in Wuhan, China

## Wednesday 15 May

14:00  
|  
17:00

### **LAB SESSION: Session 2**

**Session** | **Location:** Huazhong University of Science and Technology in Wuhan, China

## Thursday 16 May

14:00  
|  
17:00

### **LAB SESSION: Session 3**

**Session** | **Location:** Huazhong University of Science and Technology in Wuhan, China

## Friday 17 May

14:00  
|  
17:00

### **LAB SESSION: Session 4**

**Session** | **Location:** Huazhong University of Science and Technology in Wuhan, China



# Saturday 18 May

14:00  
|  
17:00

**LAB SESSION: Session 5**  
**Session** | **Location:** Huazhong University of Science and Technology in Wuhan, China

## Monday 20 May

14:00

17:00

### **LAB SESSION: Session 6**

**Session** | **Location:** Huazhong University of Science and Technology in Wuhan, China

## Tuesday 21 May

12:30

15:30

### **LAB SESSION: Session 7**

**Session** | **Location:** Huazhong University of Science and Technology in Wuhan, China

## Wednesday 22 May

14:00  
|  
17:00

### **LAB SESSION: Session 8**

**Session** | **Location:** Huazhong University of Science and Technology in Wuhan, China

## Thursday 23 May

14:00  
|  
17:00

### **LAB SESSION: Session 9**

**Session** | **Location:** Huazhong University of Science and Technology in Wuhan, China

## Friday 24 May

14:00

17:00

### **LAB SESSION: Session10**

**Session** | **Location:** Huazhong University of Science and Technology in Wuhan, China