

Scientific Data Analysis School 2019



Report of Contributions

Contribution ID: 16

Type: **Hands-on session**

ROOT: a HEP tool for data analysis

Thursday, November 28, 2019 2:00 PM (2 hours)

Presentation of the ROOT tool and hands-on exercise

Presenter: BIANCHINI, Lorenzo (INFN Pisa)

Session Classification: Particle Physics

Contribution ID: 17

Type: **Hands-on session**

Machine Learning and b-tagging in CMS

Thursday, November 28, 2019 4:30 PM (1h 30m)

Presenter: GIANNINI, Leonardo (INFN Pisa)

Session Classification: Particle Physics

Contribution ID: **18**

Type: **Speech**

Concluding Remarks

Thursday, November 28, 2019 6:00 PM (30 minutes)

Presenters: Prof. FERRARA, Andrea (SNS); ROLANDI, Luigi (Classe di Scienze Matematiche e Naturali)

Contribution ID: 19

Type: **Lecture**

Machine Learning and Deep Neural Networks in (High Energy) Physics

Thursday, November 28, 2019 11:30 AM (1h 30m)

Presenter: RIZZI, Andrea (University of Pisa and INFN)

Session Classification: Particle Physics

Contribution ID: 21

Type: **Lecture**

Computing for High Energy Physics experiments

Thursday, November 28, 2019 9:00 AM (2 hours)

Presenter: BAGLIESI, Giuseppe

Session Classification: Particle Physics

Contribution ID: 27

Type: **not specified**

Social dinner

Wednesday, November 27, 2019 8:00 PM (1h 30m)

Contribution ID: 28

Type: **Lecture**

The Science of Data Science

Wednesday, November 27, 2019 9:30 PM (1 hour)

Presenter: Prof. ACQUAVIVA, Viviana (CUNY NYC College of Technology)

Session Classification: Astrophysics

Contribution ID: 29

Type: **Speech**

Welcome Speech

Primary author: MARMÍ, Stefano

Presenter: MARMÍ, Stefano

Session Classification: Introductory Lectures

Contribution ID: **38**

Type: **Lecture**

Data Analysis in Next Generation Sequencing

Tuesday, November 26, 2019 9:00 AM (1h 30m)

Presenter: Dr ARETINI, Paolo (Fondazione Pisana per la Scienza ONLUS)

Session Classification: Nanoscience

Contribution ID: 39

Type: **Lecture**

What can we learn from single particle tracking?

Tuesday, November 26, 2019 10:30 AM (30 minutes)

Presenter: LUIN, Stefano

Session Classification: Nanoscience

Contribution ID: 40

Type: **Lecture**

Dynamics and interactions of neurotrophin receptors in the membrane of living cells

Tuesday, November 26, 2019 11:30 AM (30 minutes)

Presenter: LUIN, Stefano

Session Classification: Nanoscience

Contribution ID: 41

Type: **Lecture**

Correlation spectroscopy in living cells: an introduction

Tuesday, November 26, 2019 12:00 PM (1 hour)

Presenter: CARDARELLI, Francesco (Prof. associato Classe di Scienze)

Session Classification: Nanoscience

Contribution ID: 42

Type: **Hands-on session**

Analysis of microscopy movies with SimFCS

Tuesday, November 26, 2019 2:00 PM (1h 30m)

Presenter: CARDARELLI, Francesco (Prof. associato Classe di Scienze)

Session Classification: Nanoscience

Contribution ID: 43

Type: **Lecture**

Multidimensional transport measurements in semiconductor nanostructures

Tuesday, November 26, 2019 3:30 PM (30 minutes)

Presenter: Dr ROSSELLA, Francesco (SNS)

Session Classification: Nanoscience

Contribution ID: 44

Type: **Hands-on session**

Extracting information from multidimensional data

Tuesday, November 26, 2019 4:30 PM (1h 30m)

Primary author: Dr ROSSELLA, Francesco (SNS)

Co-author: PRETE, Domenic (Prestazione occasionale NEST - ref. Dott. Francesco Rossella)

Presenters: PRETE, Domenic (Prestazione occasionale NEST - ref. Dott. Francesco Rossella); Dr ROSSELLA, Francesco (SNS)

Session Classification: Nanoscience

Contribution ID: 45

Type: **Lecture**

Scientific Data Analysis in Astrophysics

Wednesday, November 27, 2019 9:00 AM (1h 30m)

Presenter: GALLERANI, Simona (SNS)

Session Classification: Astrophysics

Contribution ID: 46

Type: **Hands-on session**

Exploration of 3D spectroscopy data (part 1)

Wednesday, November 27, 2019 10:30 AM (30 minutes)

Presenter: Dr CARNIANI, Stefano (SNS)

Session Classification: Astrophysics

Contribution ID: 47

Type: **Hands-on session**

Exploration of 3D spectroscopy data (part 2)

Wednesday, November 27, 2019 11:30 AM (1h 30m)

Presenter: Dr CARNIANI, Stefano (SNS)

Session Classification: Astrophysics

Contribution ID: 48

Type: **Hands-on session**

Machine Learning on Galaxy spectra

Wednesday, November 27, 2019 2:00 PM (2 hours)

Presenter: Dr UCCI, Graziano (University of Groningen)

Session Classification: Astrophysics

Contribution ID: 49

Type: **Hands-on session**

Synthetic spectra from galaxies in cosmological simulations

Wednesday, November 27, 2019 4:30 PM (1h 30m)

Presenter: Dr PALLOTTINI, Andrea (Centro Fermi)

Session Classification: Astrophysics

Contribution ID: 50

Type: **Lecture**

Mathematical foundations of data science: statistics

Monday, November 25, 2019 4:10 PM (1h 20m)

Presenter: FRANCESCO MORANDIN

Session Classification: Introductory Lectures

Contribution ID: 51

Type: **Lecture**

Numerical linear algebra techniques for data analysis

Monday, November 25, 2019 5:30 PM (1h 30m)

Presenter: BENZI, Michele (Professore ordinario presso la Classe di Scienze)

Session Classification: Introductory Lectures