

SCHOOL

www.lip.pt/data-science-2019

Braga, PORTUGAL

25-27 MARCH 2019

DATA SCIENCE

IN (ASTRO)PARTICLE PHYSICS and COSMOLOGY

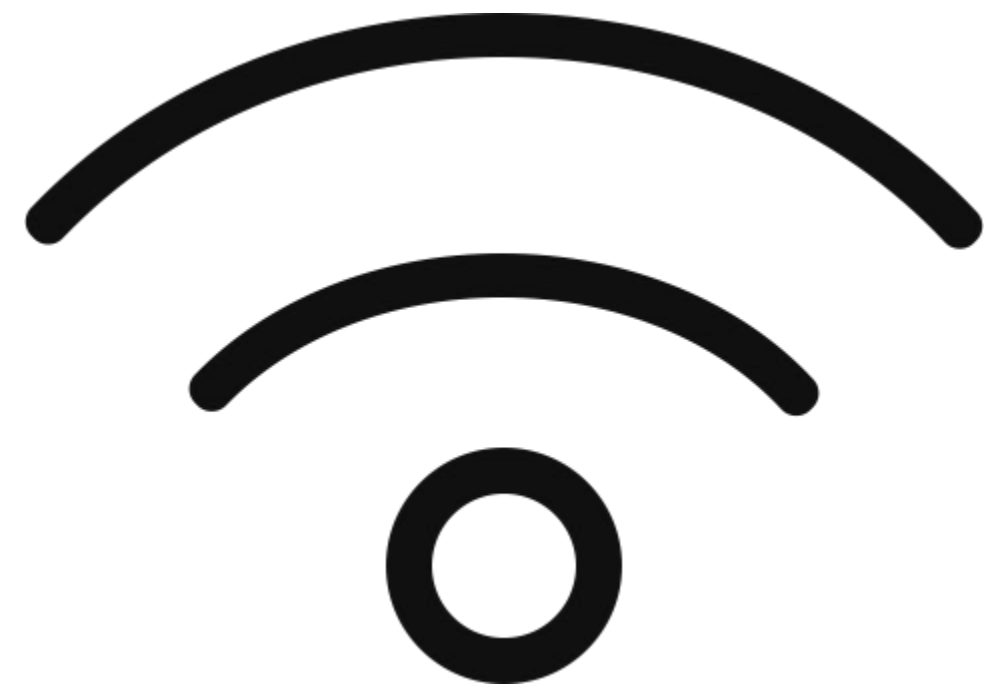
organizers



COST ACTION CA17137
A NETWORK FOR GRAVITATIONAL WAVES, GEOPHYSICS AND MACHINE LEARNING

Welcome to





ssid: DataScience

password: datascience2019

also eduroam available

Where to eat

At the University:

Canteen

Grill

Panoramic Restaurant



Grill

Canteen

Restaurant

Auditorium

Where to eat

Outside the University, we recommend:

Tasquinha Bracarense (5€ menu)

Pausa Útil (Vegetarian, <10€)



Pausa Útil
(Vegetarian)

Tasquinha
Bracarense

Auditorium

Agenda

MONDAY, 25 MARCH

09:00 → 09:30 **Registration and Welcome**

09:30 → 11:00 **1st class on statistics**
Speaker: Glen Cowan (RHUL)

11:00 → 11:30 **Coffee-break**

11:30 → 13:00 **1st class on machine learning**
Speaker: Tommaso Dorigo (INFN, Univ. Padova)

13:00 → 14:30 **Lunch**

14:30 → 16:30 **Statistics exercises**
Speaker: Glen Cowan (RHUL)

16:30 → 17:00 **Coffee-break**

17:00 → 17:30 **Introduction to gravitational waves**
Speaker: Elena Cuoco

17:30 → 18:30 **Introduction to the data challenge**
Speakers: Filip Morawski, Massimiliano Razzano, Roberto Corizzo

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Agenda

TUESDAY, 26 MARCH

- 09:00** → 10:30 **2nd class on statistics**
Speaker: Glen Cowan (RHUL)
- 10:30** → 11:00 **Coffee-break**
- 11:00** → 12:30 **2nd class on machine learning**
Speaker: Tommaso Dorigo (INFN, Univ. Padova)
- 12:30** → 14:00 **Lunch**
- 14:00** → 15:00 **Data Challenge tutorial**
Speakers: Filip Morawski, Massimiliano Razzano, Roberto Corizzo
- 15:00** → 16:30 **3rd class on machine learning**
Speaker: Tommaso Dorigo (INFN, Univ. Padova)
- 16:30** → 16:50 **Coffee-break**
- 16:50** → 17:40 **Tutorial on Keras (part 1)**
Speaker: Giles Strong (LIP)
- 18:00** → 19:00 **Public Session**
Convener: Glen Cowan

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Agenda

WEDNESDAY, 27 MARCH

- 09:00** → 10:30 **3rd class on statistics**
Speaker: Glen Cowan (RHUL)
- 10:30** → 11:00 **Coffee-break**
- 11:00** → 11:30 **Tutorial on Keras (part 2)**
Speaker: Giles Strong (LIP)
- 11:30** → 12:30 **Supervised work on the data challenge**
Speakers: Filip Morawski, Massimiliano Razzano, Roberto Corizzo
- 12:30** → 14:00 **Lunch**
- 14:00** → 16:00 **Supervised work on data challenge**
Speakers: Filip Morawski, Massimiliano Razzano, Roberto Corizzo
- 16:00** → 16:30 **Coffee-break**
- 16:30** → 18:00 **Students presentations on the results of the data challenge**

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