SCHOOL & SYMPOSIUM

www.lip.pt/data-science-2022

**Coimbra, PORTUGAL**

27 JUNE - 1 JULY 2022

# DATA SCIENCE

IN (ASTRO)PARTICLE PHYSICS and COSMOLOGY: the BRIDGE to INDUSTRY



organizers

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1290 UNIVERSIDADE D COIMBRA

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# Organisation:

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- Liliana Apolinário
- Nuno Barros
- Paulo Brás
- Nuno Castro (co-chair)
- Lorenzo Cazon
- João Carvalho
- Ruben Conceição
- Rui Ferreira Marques
- Ricardo Gonçalo (chair)
- Alexandre Lindote
- Isabel Lopes
- Valentina Lozza
- Francisco Neves
- Vladimir Solovov
- Filipe Veloso
- Lorenzo Cazon (Chair)
- Ruben Conceição
- Nuno Castro
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- Guilherme Milhano

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- Henrique Carvalho
- Carlos Manuel

**Secretariat:**

- Natália Antunes
- Elisabete Neves
- Margarida Rodrigues

**Dinner mastermind**: João Silva



# Partners:

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INCD Infraestrutura Nacional de Computação Distribuída

FCT Fundação para a Ciência e a Tecnologia
MINISTÉRIO DA EDUCAÇÃO E CIÊNCIA

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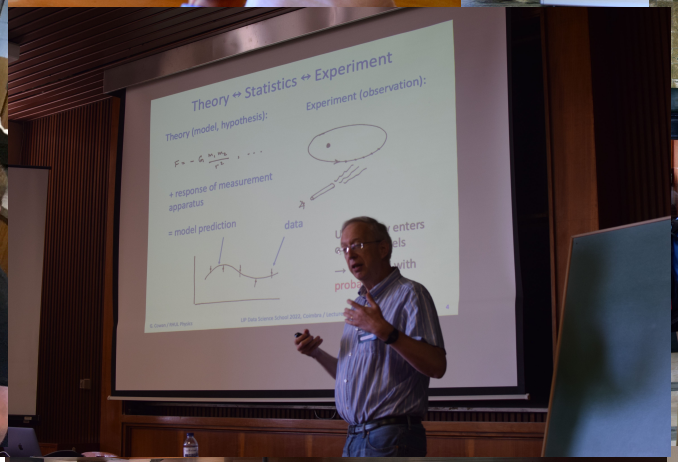
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Statistics for Particle Physicists
Lecture 1
DATA SCIENCE
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Theory ⇔ Statistics ⇔ Experiment
Theory (model, hypothesis):
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+ response of measurement apparatus
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