SSM PhD Courses - Second bimester

Starting from 8th January 2024

MERC area

- **An Introduction to Learning and Data-Driven Methods**
  Lecturer: Prof. Giovanni Russo, Prof. Mirco Musolesi
  Teaching mode: in-person (Aula 4) | Hours: 24
  Tuesday 11:00-13:00 and Thursday 16:00-18:00 except for 09/01, 06/02, 08/02, 13/02 and 15/02. These lectures will be held on Tuesdays 09/01, 06/02 and 13/02 at 14:00-16:00 (Aula 1) and Wednesdays 07/02 and 14/02 at 16:00-18:00 (Aula 4).
  The lectures from 06/02 to 15/02 will be held by Prof. Mirco Musolesi; the last two on 13/02 and 14/02 will be held online.
  Team code: j3z6nha

- **Probability calculus and elements of stochastic modelling**
  Lecturer: Dr. Giacomo Ascione, Dr. Caio César Graciani Rodrigues
  Teaching mode: in-person (Aula 4) | Hours: 24
  Monday 09:00-11:00 and Friday 09:00-11:00 except for 27/01.
  This lecture of Friday 26/01 will be held on Tuesday 09/01 at 11:00-13:00 (Aula 1).
  Team code: 7jkkepf

- **Introduction to Python for Machine Learning**
  Lecturer: Dr. Davide Salzano, Dr. Giuseppe Petrillo
  Teaching mode: in-person (Aula 1) | Hours: 12
  Monday 11:00-13:00 and Wednesday 14:00-16:00.
  The course will last for 3 weeks.
  Team code: 4irpjwc

MPHS area

- **Partial Differential Equations**
  Lecturer: Dr. Martin Mayer
  Teaching mode: in-person (Aula 4) | Hours: 24
  Tuesday 9:00-11:00, Thursday 9:00-11:00, except for 09/01, 11/01, 16/01, 18/01. These lectures will be held on Wednesday 10/01 11:00-13:00, Friday 12/01 11:00-13:00, Thursday 18/01 11:00-13:00 and Friday 19/01 11:00-13:00.
  Team code: uxtxh7h
• **Numerical Treatment of Partial Differential Equations**
  Lecturer: Prof. Francesco Calabrò
  Teaching mode: in-person (Aula 4)  |  Hours: 24
  Tuesday 14:00-16:00, Wednesday 9:00-11:00 (Except for 10/01)
  The course will end on 20/02.
  Team code: **dd2qo1u**

• **Micromagnetics and Spintronics**
  Lecturer: Prof. Massimiliano D'Aquino and Prof. Claudio Serpico
  Teaching mode: in-person (Aula 1-4)  |  Hours: 12
  Monday 29/01, 16:00-18:00 Aula 4, Tuesday 30/01 16:00-18:00 Aula 1, Thursday 01/02
  16:00-18:00 Aula 1, Monday 05/02 16:00-18:00 Aula 1, Tuesday 06/02 16:00-18:00 Aula 1,
  Thursday 08/02 16:00-18:00 Aula 1,
  Team code: **2xu49an**

**SPACE area**

• **Introduction to Astroparticle Physics**
  Lecturer: Dr. Ninetta Saviano
  Teaching mode: in-person (Aula 1)  |  Hours: 24
  Wednesday 16h30-18h30, Thursday 11h-13h and also Jan. 15 and Jan. 29 at 16h30-
  18h30. There will be no class on Jan. 18; the Feb. 14 class is moved from 16h30 to 11h on
  the same day.
  Team code: **ec5hriw**

• **Quantum Information, Complexity and Black Holes**
  Lecturer: Prof. Alioscia Hamma
  Teaching mode: in-person (Aula 4)  |  Hours: 6
  9 -10-11 January 9h-11h
  Team code: **ok1fkxd**

• **Black Holes Physics**
  Lecturer: Dr. Vittorio de Falco
  Teaching mode: in-person (Aula 4)  |  Hours: 6
  16 and 18 January 9h-11h, 17 January 11h-13h
  Team code: **6gb64cw**