

## SSM PhD Courses - Second bimester

Starting from 8<sup>th</sup> 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: **ujsxh7h**

- [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 Hama

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**