Fourth quarter courses at Scuola Superiore Meridionale

SPACE area

- **Quasars as cosmological probes**
  Lecturer: Prof. Risaliti
  Email: guido.risaliti@unifi.it
  Teaching mode: in person (Aula 1) | Hours: 12
  Team code: 7g8qb3h
  Start date: 11 May 2022 | 2-week course duration
  Course days: Wednesday 14:00-17:00, Thursday 9:00-12:00
  Note: On 12 May the lecture will be held 9h-11h in Aula4 and 12h-13h in Aula1

- **Relativistic position as a way of probing gravitational field**
  Lecturer: Prof. Fatibene
  Email: lorenzo.fatibene@unito.it
  Teaching mode: in person (Aula 1) and online | Hours: 12
  Team code: eioo8m6
  Start-End date: 9 May 2022 | 2-week course duration
  Course days: Monday 14h-16h, Tuesday- Wednesday 11h-13h, Thursday 15:30-17:30
  Note: Dates refer to the 8 hours of frontal lectures. The additional 4 hours are held on the 18th at 11h-13h and 23th at 11h-13h.

- **Standard Model of Fundamental Interactions**
  Lecturer: Prof. Sannino
  Email: francesco.sannino@unina.it
  Teaching mode: online | Hours: 12
  Team code: c3x669m
  Start date: 23 May 2022 | 2-week course duration
  Course days: Monday 14h-16h, Tuesday - Wednesday 11h-13h

- **Observational Cosmology**
  Lecturer: Dr. Benetti
  Email: micol.benetti@gmail.com
  Teaching mode: in person (Aula 4) | Hours: 12
  Team code: 8ezkbz0
  Start date: 24 May 2022 | 3-week course duration
  Course days: Tuesday 16h-18h, Wednesday 15h-17h
MPHS area

- **Micromagnetism**
  Lecturer: Prof. Thomas Schrefl  
  Email: thomas.schrefl at donau-uni.ac.at  
  Teaching mode: in person | Hours: 10  
  Team code: 8nd9x4y  
  Start date: 02 May 2022 | 1-week course duration  
  Course days: Monday 09h-11h, Tuesday to Friday 11h-13h  
  Note: see the calendar at the [link](#)

- **Fundamentals of Computational Fluid Dynamics**
  Lecturer: Prof. Alessandro Veneziani  
  Email: avenez2@emory.edu  
  Teaching mode: online | Hours: 24  
  Team code: tjpnzcf  
  Start date: 02 May 2022 | 6-weeks course duration  
  Course days: Monday and Wednesday 15h-17h  
  Note: The course will take place in the first four weeks of May, then it will resume right after the 12 of June. See the calendar at the [link](#)

- **Nonlinear Computational Solid Mechanics**
  Lecturer: Prof. Ferdinando Auricchio  
  Email: auricchio@unipv.it  
  Teaching mode: in person | Hours: 24  
  Team code: nsplp2e  
  Start date: 05 May 2022 | 6-weeks course duration  
  Course days: Check the timetable  
  Note: see the calendar at the [link](#)

- **Molecular Thermodynamics of Materials: An Introduction**
  Lecturer: Prof. Francesco Greco, Prof. Giuseppe Milano, Dr. Antonio De Nicola  
  Email: francesco.greco@unina.it, giuseppe.milano@unina.it, antonio.denicola@unina.it  
  Teaching mode: in person | Hours: 28  
  Team code: btcxqbf  
  Start date: 20 May 2022 | 7-weeks course duration  
  Course days: Wednesday and Friday 09h-11h from 20 May to 24 June, then Tuesday and Wednesday 09h-11h  
  Note: see the calendar at the [link](#)

MERC area

- **Fundamentals of Natural Hazard Forecasting**
  Lecturer: Prof. Warner Marzocchi  
  Email: warner.marzocchi@unina.it
Teaching mode: in person | Hours: 24
Start date: 2 May 2022 | 6-weeks course duration
Course days: timetable available here
Team code: jowpzj3

- **Stochastic differential equations and singular stochastic control**
  Lecturer: Prof. Tiziano De Angelis
  Email: tiziano.deangelis@unito.it; tiziano.deangelis-ssm@unina.it
  Teaching mode: in person | Hours: 24
  Start date: 11 May 2022 | 3-weeks course duration
  Course days: timetable available here
  Team code: 43fsbml

- **Short-term forecasting of heavy hydrogeological events**
  Lecturer: Prof. Gianfranco Urciuoli; Prof. Luciano Picarelli
  Email: gianurci@unina.it; luciano.picarelli@unicampania.it
  Teaching mode: in person | Hours: 12
  Start date: 24 May 2022 | 3-weeks course duration
  Course days: timetable available here
  Team code: bd9cgun

- **Earthquake early warning systems**
  Lecturer: Prof. Aldo Zollo
  Email: aldo.zollo@unina.it
  Teaching mode: in person | Hours: 12
  Start date: after 20 June 2022 (tbd)
  Course days: tbd
  Team code: available soon

**MOSES area**

- **Astrochemistry (second part)**
  Lecturer: Prof. Vincenzo Barone, Dr. Marco Mendolicchio
  Email: vincenzo.barone@sns.it
  Teaching mode: in person and online | Hours: 24
  Start date: 02 May 2022 | 6-weeks course duration
  Course days: Monday 9:30-11:30, Thursday 15:00-17:00. Seminars on June 6-8.

- **Medicinal Physical Chemistry (second part)**
  Lecturer: prof. Concetta Giancola, Prof. Giordano Mancini
  Email: concetta.giancola@unina.it, giordano.mancini@sns.it
  Teaching mode: in person and online | Hours: 24
  Start date: 05 May 2022 | 6-weeks course duration
  Course days: Thursday 11:00-13:00, Friday 14:30-16:30

- **Experimental and theoretical chemistry for sustainable materials**
  Lecturer: Prof. Giovanni Talarico, Prof. Nadia Rega
  Email: talarico@unina.it, nadrega@unina.it
Teaching mode: in person and online | Hours: 24
Start date: 02 May 2022 | 6-weeks course duration
Course days: Monday 14:00-17:00, Wednesday 16:00-18:00